



List of Selected Abstract (Oral & Poster) 6th USSTC

Sr. No	Discipline	O/P	Title of Abstract	Name of Author(S)	Organizational Affiliation
1	Agricultural Sciences	O	DIVERSITY ANALYSIS IN INTERVARIETAL AND INTERSPECIFIC CROSSES OF BLACKGRAM REVEALED THROUGH ISSR MARKERS	Priyanka Bhareti* R. K. Khulbe, D. P. Singh	Research Scholar, Department of Genetics & Plant Breeding, G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar
2	Agricultural Sciences	O	ASSESSMENT OF GENETIC DIVERGENCE FOR YIELD AND YIELD CONTRIBUTING TRAITS IN FIELD PEA (<i>Pisum sativum</i> L.).	Sundeep Kumar* R.K.Panwar	G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture & Technology, Pantnagar
3	Agricultural Sciences	O	EFFECT OF MEDICINAL PLANT OILS ON FEEDING BEHAVIOUR OF BOMBYX MORI LINN.	Priyanka Bhatt* R.P. Srivastava ¹	G.B. Pant University of Agriculture & Technology, Pantnagar ¹ G.B.Pant University of Agriculture and Technology, Pantnagar
4	Agricultural Sciences	P	INFLUENCE OF APPLIED FUNGICIDES AND BIOAGENTS ON POPULATION OF PSEUDOMONAS AND PSB	Gaurav Mishra* Narendra Kumar ¹	G.B. Pant University of Agriculture & Technology, Pantnagar ¹ G.B. Pant University of Agriculture & Technology, Pantnagar

5	Agricultural Sciences	P	BIOEFFICACY OF PLANT EXTRACTS AGAINST ZONATE LEAF SPOT OF SORGHUM CAUSED by <i>Gleocercospora sorghi</i> Bain & Edgerton	B.S. Kharayat* Y. Singh	College of Agriculture, G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture & Technology, Pantnagar
6	Agricultural Sciences	O	BIO-EFFICACY OF TEMBOTRIONE 42% SC (LAUDIS 42 SC) + SURFACTANT AGAINST MIXED WEED COMPLEX IN MAIZE	Akshita Banga* V.P. Singh ¹ V.C. Dhyani ¹ Neeta Tripathi ¹ Abnish Kumar ¹	Department of Agronomy, G.B. Pant University of Agriculture & Technology, Pantnagar ¹ Department of Agronomy, G.B. Pant University of Agriculture & Technology, Pantnagar
7	Agricultural Sciences	O	AN ASSESSMENT INTRODUCTION OF <i>Amomum subulatum</i> Roxb. (LARGE CARDAMOM) IN UTTARAKHAND	A K Bhandari* J S Negi ¹ V K Bisht ¹ R C Sundriyal ¹ M Baunthiyal ²	Herbal Research and Development Institute (HRDI), Gopeshwar, Chamoli ¹ Herbal Research and Development Institute (HRDI), Gopeshwar, Chamoli ² Department of Biotechnology, G.B.Pant Engineering College Ghurdauri, Pauri Garhwal

8	Agricultural Sciences	P	EFFECTIVE TRAINING SYSTEM FOR TRANSFER OF TECHNOLOGY IN NORTH WESTERN INDIA	Keshav Ram Maurya* S.P.Singh ¹ R.C.Kimoti ¹ P.M.Tripathy ¹ R.K.Dhingra ¹ H.Chandra ¹ P.K.Singh ¹ M.A. Khan ²	Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ¹ Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ² Central Sericultural Research & Training Institute, Central Silk Board, Pampore, Srinagar, Jammu & Kashmir
9	Agricultural Sciences	P	BIOLOGICAL CONTROL OF FUSARIUM OXYSPORUM F.SP. LENTIS USING ANTAGONIST TRICHODERMA HARZIANUM	Ankita Garkoti * H.S Tripathi	Department of Plant Pathology, G.B. Pant University of Agriculture & Technology, Pantnagar Department of Plant Pathology, G.B. Pant University of Agriculture & Technology, Pantnagar
10	Agricultural Sciences	P	EFFECTIVE EXTENSION MANAGEMENT OF SERICULTURE TECHNOLOGIES – A TOOL FOR SELFEMPLOYMENT IN NEW RURAL AREAS OF DOON VALLEY	Surendra Pal Singh* S. Kumar ¹ K.R. Muarya ² P.K. Singh ² M.A. Khan ³	C.D.C Kalsi-Vikasnagar, Central Silk Board, Vikasnagar, Deharadun ¹ C.D.C Kalsi-Vikasnagar, Central Silk Board, Vikasnagar, Deharadun ² Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ³ Central Sericultural Research & Training Institute, Central Silk Board,

					Pampore, Srinagar, Jammu & Kashmir
11	Agricultural Sciences	O	COMPARISON OF ARTIFICIAL INOCULATION METHODS FOR THE STUDIES OF PATHOGENESIS AND SCREENING OF RESISTANCE AGAINST ALTERNARIA BRASSICAE IN DIFFERENT VARIETIES OF BRASSICA JUNCEA	Priyanka Giri* Anil Kumar, Gohar Taj	G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture & Technology, Pantnagar
12	Agricultural Sciences	P	RELATIVE EFFICIENCY OF INDEX SELECTION FOR GRAIN YIELD IMPROVEMENT IN OAT (Avena sativa L.)	Chandan Roy* J. S. Verma	G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture & Technology, Pantnagar
13	Agricultural Sciences	O	INTEGRATED DISEASE MANAGEMENT IN INDIAN MUSTARD: A POTENT APPROACH	Renu Bhatt* R.P. Awasthi A.K. TewariI	College of Agriculture, G.B. Pant University of Agriculture & Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture & Technology, Pantnagar
14	Agricultural Sciences	O	MAINTENANCE AND UTILISATION OF MULBERRY GERMPLOASM FOR SUBTROPICAL REGIONS OF UTTARAKHAND	R.K. Dhingra* P.K.Srivastav ¹ P.K.Singh ¹ M.A. Khan ²	C.D.C Kalsi-Vikasnagar, Central Silk Board, Vikasnagar, Deharadun ¹ Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ² Central Sericultural Research & Training Institute, Central Silk Board, Pampore, Srinagar,

					Jammu & Kashmir
15	Agricultural Sciences	O	SOIL FERTILITY RESTORATION NEEDS FOR SUSTAINED SUGARCANE PRODUCTIVITY	Anil Kumar Pant*	Sugarcane Research Centre, Kashipur
16	Agricultural Sciences	P	MANAGEMENT OF BANDED LEAF AND SHEATH BLIGHT OF MAIZE USING FUNGICIDES	Bimla Kumari* Pradeep Kumar	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
17	Agricultural Sciences	O	ROBUST ROLE OF ZEATIN IN INHIBITION OF ALTERNARIA BRASSICAE IN ARABIDOPSIS THALIANA	Lalan Kumar* Anil Kumar, Dinesh Pandey, Priyanka Geri	G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar
18	Agricultural Sciences	P	ASSESSMENT OF MORPHOLOGICAL, PATHOGENIC AND MOLECULAR VARIABILITY AMONG SCLEROTINIA SCLEROTIORUM (LIB.) DE BARY ISOLATES	Gitanjali Bangari* R.P. Awasthi ¹ A.K.Tewari ¹ Vipin Kumar Singh ²	Deptt. of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar ¹ Deptt. of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar ² CARDA-SACRP, NASC Complex, New Delh

19	Agricultural Sciences	P	IMPROVING BACTERIAL BLIGHT RESISTANCE OF 'UPRI-93-287-R' AN ELITE RESTORER OF HYBRID RICE, BY MOLECULAR MARKER ASSISTED GENE PYRAMIDING	Vipin Kumar Singh* Salil Tewari ¹ Gitanjali Bangari ²	Deptt. of Genetics & Plant Breeding, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand ¹ Deptt. of Genetics & Plant Breeding, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand ² Deptt. of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
20	Agricultural Sciences	O	EFFECT OF DIFFERENT CASING MIXTURES AND STERILIZATION TECHNIQUES ON SPOROPHORE DEVELOPMENT AND YIELD OF WHITE SUMMER MUSHROOM, <i>Calocybe indica</i> P&C	Vandana Panday* K.K. Mishra A.K.Tewari	Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar

21	Agricultural Sciences	O	COPANT 08221 - A PROMISING SUGARCANE CLONE SUITABLE FOR UTTARAKHAND	Sidharth Kashyap* Promod Kumar ¹ Shailbala ¹ Sanjay Kumar ¹ S.P. Singh ²	Sugarcane Research Centre, Kashipur ¹ Sugarcane Research Centre, Kashipur ² Department of Genetics and Plant Breeding, G.B. Pant University of Agriculture and Technology, Pantnagar
22	Agricultural Sciences	O	PERFORMANCE OF SUGARCANE VARIETIES WITH DIFFERENT FERTILITY LEVELS UNDER LATE PLANTING IN UTTARAKHAND	Sanjay Kumar* Sidharth Kashyap ¹ Pramod Kumar Singh ¹ D.S. Pandey ²	Sugarcane Research Centre, Kashipur ¹ Sugarcane Research Centre, Kashipur ² College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
23	Agricultural Sciences	P	COMBINING ABILITY ANALYSIS FOR YIELD AND ITS ATTRIBUTING TRAITS IN HIGH QUALITY PROTEINMAIZE (ZEA MAYS L.)	Jitendra Bhasakr* Sitar Singh Verma	Deptt. of Genetics & Plant Breeding, GBPUA&T, Pantnagar, Uttarakhand Deptt. of Genetics & Plant Breeding, GBPUA&T, Pantnagar, Uttarakhand
24	Agricultural Sciences	P	ASSESSMENT OF SNAPDRAGON (ANTIRRHINUM MAJUS L.) GENOTYPES UNDER TARAI CONDITIONS OF UTTARAKHAND	Rakesh Kumar* Santosh Kumar	Department of Horticulture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Horticulture, G.B. Pant University of Agriculture and Technology,

					Pantnagar
25	Agricultural Sciences	P	AN ECONOMIC ANALYSIS OF PROFITABILITY IN MAJOR TRADITIONAL CROPS IN KUMAON REGION OF UTTARAKHAND	Manisha Pant* S.K. Srivastava	Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
26	Agricultural Sciences	P	CONSTRAINTS PERCEIVED BY THE TRIBAL FARMERS IN OPERATING DIFFERENT FARMING SYSTEMS IN UDHAM SINGH NAGAR DISTRICT OF UTTARAKHAND	Shalini Raghav* S.K. Srivastava	Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
27	Agricultural Sciences	P	TECHNOLOGY ADOPTION AND YIELD GAP IN RICE CULTIVATION IN HILLS OF UTTARAKHAND	Rooba Hasan* Virndra Singh ¹ H.P. Singh ² S.K. Srivastava ³	Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar ¹ Department of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar ² Department of Agri Economics, Banaras Hindu University, Varanasi ³ Directorate of Water Management, Bhubaneshwar,

					Orissa
28	Agricultural Sciences	P	GROWTH AND DEVELOPMENT OF SAMIA CYNTHIA RICINI (BOISDUVAL) ON ARTIFICIAL DIET	Parul Chaudhary* Neeta Gaur Vaibhav Mathur	Deptt. of Entomology, G.B. Pant University of Agriculture and Technology, Pantnagar Deptt. of Entomology, G.B. Pant University of Agriculture and Technology, Pantnagar Deptt. of Entomology, G.B. Pant University of Agriculture and Technology, Pantnagar
29	Agricultural Sciences	P	CORRELATION STUDIES IN FRENCH BEAN (PHASEOLUS VULGARIS L.) UNDER TARAI CONDITIONS OF UTTARAKHAND	Mukesh Topwal* Dhirendra Kumar Singh	Department of Vegetable Science, G.B. Pant University of Agriculture and Technology, Pantnagar Deptt. of Entomology, G.B. Pant University of Agriculture and Technology, Pantnagar
30	Agricultural Sciences	O	COMPATIBILITY OF <i>TRICHODERMA HARZIANUM</i> PBT 23 WITH DIFFERENT BIOCIDES	Deepika Saxena* A.K. Tewari R.P. Awasthi	Department of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Plant Pathology, G.B. Pant University of Agriculture and Technology, Pantnagar

31	Agricultural Sciences	P	ORGANIC MANAGEMENT OF POWDERY MILDEW DISEASE IN VEGETABLE PEA CAUSING ERISYPHE POLYGONI IN UTTARAKHAND HILLS	Devendra Singh* Rajan Kumar Gupta ¹ Promila Sharma ²	Graphic Era University, Dehradun ¹ Govt. Post Graduate College, Rishikesh, Dehradun ² Uttarakhand Organic Commodity Board, Dehradun
32	Agricultural Sciences	O	BIOCONTROL OF FUSARIUM OXYSPORUM CAUSING WILT DISEASE IN COMMON BEAN USING BACILLUS SUBTILLIS BPR7	Pankaj Kumar* Pradeep Kumar, R. C. Dubey, D.K. Maheshwari	Department of Botany and Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar Department of Botany and Microbiology, Gurukul Kangri Vishwavidyalaya, Haridwar
33	Agricultural Sciences	O	DEVELOPMENT OF FISH-POULTRY-VEGETABLE INTEGRATED FARMING MODELS TO MAXIMISE FARMERS INCOME IN MID HILLS OF UTTARAKHAND	V.K. Singh* K.S. Mehta, Rajendra Kumar, B.S. Rawat	Krishi Vigyan Kendra, Lohaghat, Champawat G.B. Pant University of Agriculture and Technology, Pantnagar
34	Agricultural Sciences	P	<i>PLEUROTUS SPP.</i> MUSHROOM CULTIVATION AS RURAL AGRICULTURE FOR LANDLESS FARM WOMEN AND UNEMPLOYED RURAL YOUTH IN DISTRICT PITHORAGARH	Nirmala Bhatt* R.K. Singh	G.B. Pant University of Agriculture and Technology, Pantnagar KVK, G.B. Pant University of Agriculture and Technology, Pantnagar, Pithoragarh

35	Agricultural Sciences	P	BEE POLLINATION: AN EFFECTIVE WAY TO INCREASE THE LITCHI (<i>LITCHI CHINENSIS SONN.</i>) YIELD	Vijay Laxmi Rai* Poonam Srivastava	G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar
36	Agricultural Sciences	P	EFFECT OF PRIMING ON CROP ESTABLISHMENT AND YIELD OF LATE SOWN WHEAT	Geeta Kaur* Omvati Verma	G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar
37	Agricultural Sciences	P	EFFECT OF VARIOUS MULCHES ON GROWTH AND YIELD OF APPLE (<i>MALUS DOMESTICA BORKH.</i>) CV. RED DELICIOUS	Pankaj Nautiyal* V.K. Sachan ¹ Kamal Pande ² J.K. Bisht ³	Krishi Vigyan Kendra, (VPKAS-ICAR), Chinyalisaur, Uttarkashi ¹ Krishi Vigyan Kendra, (VPKAS-ICAR), Chinyalisaur, Uttarkashi ² Krishi Vigyan Kendra, (VPKAS-ICAR), Kafligair, Bageshwar ³ Head Crop Production Division, V.P.K.A.S., Almora
38	Agricultural Sciences	P	EFFECT OF PLANT GROWTH PROMOTING RHIZOBACTERIA AND <i>RHIZOBIUM</i> APPLICATION ON NODULATION AND YIELD OF CHICKPEA	Parul Bhatt Kotiyal*	Forest Soil and Land Reclamation Division, Forest Research Institute, Dehradun

39	Agricultural Sciences	P	DUS CHARACTERIZATION OF MAIZE AND FRENCH BEAN TRADITIONAL FARMERS' VARIETIES FROM UTTARAKHAND	Neetu Mall* H.S. Chawla	G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
40	Agricultural Sciences	P	INFLUENCE OF WEED MANAGEMENT PRACTICES ON PHOTOSYNTHETIC RATE AND YIELD OF RICE (ORYZA SATIVA L.)	Pawanika Chandola* S. K. Guru	G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
41	Agricultural Sciences	P	EFFECT OF COWPEA SUPPLEMENTED BISCUITS ON COGNITIVE DEVELOPMENT OF MALNOURISHED PRESCHOOL CHILDREN)	Vandana* Archana Kushwaha	G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar
42	Agricultural Sciences	P	NUTRIENT MANAGEMENT IN BRAHMI (Bacopa monnieri L.)	Vineeta* Archana Kushwaha	G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar

43	Agricultural Sciences	O	FIRST INDIGENOUS PARTHENO-CARPIC CUCUMBER VARIETY SUITABLE FOR POLYHOUSE CULTIVATION IN INDIA	D.K. Singh* Archana Kushwaha	Department of Vegetable Science, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Vegetable Science, G.B. Pant University of Agriculture and Technology, Pantnagar
44	Agricultural Sciences	O	PHYSIOLOGICAL PARAMETERS IN RELATION TO POWDERY MILDEW RESISTANCE IN DIVERSE GARDEN PEA GENOTYPE UNDER NORTH-WEST HIMALAYAN CONDITIONS	N.K. Hedau* Arun Kumar R., R. Ramesh, A. Gahalain, Chandrashekar, J. Stenley, P.K. Agarwal, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
45	Agricultural Sciences	O	BIODIVERSITY AND UTILIZATION OF MEDICINAL MUSHROOMS OF UTTARAKHAND HILLS WITH PARTICULAR REFERENCE TO <i>GANODERMA LUCIDUM</i> AND <i>CORDYCEPS SINENSIS</i>	K. K. Mishra* J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
46	Agricultural Sciences	P	EFFECT OF DIFFERENT GRAINS EXTRACT SPRAY ON FRUCTIFICATION OF <i>PLEUROTUS</i> SPP. IN UTTARAKHAND HILLS	Himanshu Joshi* K.K.Mishra, C. Chandrashekar, S.K. Jain, J.C.Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR,

					Almora
47	Agricultural Sciences	O	ARE WE READY TO FACE THE CLIMATE CHANGE? A CASE STUDY ON RICE BPH, <i>NILAPARVATA LUGENS</i> IN UTTARAKHAND HILLS	J. Stanley* J.C.Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
48	Agricultural Sciences	P	SEQUENTIAL TESTING OF INSECTICIDAL TOXICITY TO HONEYBEES	Khushboo Sah* J. Stanley, Varun Supyal J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
49	Agricultural Sciences	P	AGE SPECIFIC SUSCEPTIBILITY OF <i>SPODOPTERA LITURA</i> AND <i>SPILARCTIA OBLIQUA</i> LARVAL INSTARS TO DIFFERENT INSECTICIDES	J.P. Gupta* J. Stanley, S. Khushboo, Ramkewal, S.K. Jain	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora

50	Agricultural Sciences	P	INFLUENCE OF GROWING MEDIA AND CROP GEOMETRY ON GROWTH, YIELD AND QUALITY OF CAPSICUM UNDER PROTECTED CONDITION IN NORTH WEST HIMALAYAS	Sumita Roy* Narendra Kumar ¹ A.K. Srivastava ¹ J.C.Bhatt ¹ D.K.Singh ²	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora ¹ Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora ² U.P.Autonomous College, Varanasi, Uttar Pradesh
51	Agricultural Sciences	P	BIOLOGY OF WORKER STINGLESS BEE, TRIGONA LAEVICEPS SMITH AT PANTNAGAR	Velmurugan. P* M.S. Khan	G.B. Pant University of Agriculture and Technology, Pantnagar Department of Entomology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
52	Agricultural Sciences	P	MANAGEMENT OF AERIAL BLIGHT OF SOYBEAN BY PLANT EXTRACTS	Vishwanath* Archana Negi	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand

53	Agricultural Sciences	O	EVALUATION OF OKRA GERMPLASM FOR YIELD AND YIELD ATTRIBUTES DURING RAINY SEASON AND SUMMER SEASON	Pradeep Kumar* Durvesh Kumar Singh	G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
54	Agricultural Sciences	O	PERFORMANCE OF WHEAT VARIETIES UNDER VARIOUS TREE DENSITIES OF POPLAR IN AGROFORESTRY SYSTEM	Hemlata Joshi* O. P. S. Bana	Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar
55	Agricultural Sciences	O	INTROGRESSION AND ANALYSIS OF GENES RESPONSIBLE FOR HIGH GRAIN IRON AND ZINC CONTENT IN WHEAT-AEGILOPS DERIVATIVES	Shailender Kumar Verma* Naincy Girdharwal, H.S. Dhaliwal, R. Prasad,	Indian Institute of Technology, Roorkee Department of Biotechnology, Indian Institute of Technology, Roorkee
56	Agricultural Sciences	O	INTEGRATED ASSESSMENT OF VEGETABLE-BASED RELAY INTERCROPPING SYSTEMS IN THE NORTH-WESTERN HIMALAYA	M.D. Tuti* B.M. Pandey, R. Bhattacharyya, J.K. Bisht, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora

57	Agricultural Sciences	O	ECO-FRIENDLY MANAGEMENT OF BACTERIAL WILT (<i>RALSTONIA SOLANACEARUM</i>) IN TOMATO	Chandrashekara C* P. K. Mishra, N. K. Hedau, Deeksha Joshi, S. K. Jain	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
58	Agricultural Sciences	O	DUAL PURPOSE (GREEN FODDER CUM GRAIN) WHEAT – AN AVENUE TO ENSURE FOOD AND FEED SECURITY	Lakshmi Kant* S.K. Jain, J.K. Bisht, P.K. Agrawal J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
59	Agricultural Sciences	O	HOW TO ENHANCE THE QUALITY SEED AVAILABILITY AMONG HILL FARMERS?	Udaya Bhaskar K* Lakshmi Kant, P.K. Agrawal, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
60	Agricultural Sciences	O	PERFORMANCE OF FARMERS' CLUBS IN EFFICIENT VEGETABLE PRODUCTION	Renu Jethi* Pushpa Upadyay, J.K. Bisht, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR,

Almora

61	Agricultural Sciences	O	DIVERSITY OF ENDOPHYTIC BACILLUS THURINGIENSIS OBTAINED FROM CULTIVATED LEGUMES IN THE NORTH WESTERN INDIAN HIMALAYAS	A.R.N.S. Subbanna* Pankaj K. Mishra, S. K. Jain, Jaideep K. Bisht, Jagdish C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
62	Agricultural Sciences	O	EVALUATION OF COLD TOLERANT PHOSPHATE SOLUBILIZING BACTERIAL CONSORTIUM ON WHEAT (TRITICUM AESTIVUM L.)	K. Jeevanandan* Pankaj Kumar Mishra, Piyush Joshi, Preeti Suyal, Jaideep Kumar Bisht, Jagdish C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora, Uttarakhand Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora, Uttarakhand
63	Agricultural Sciences	O	DEVELOPMENT OF COLD TOLERANT BACTERIAL CONSORTIA TO ALLEVIATE COLD STRESS IN WHEAT (TRITICUM AESTIVUM L.) SEEDLINGS	Pankaj Kumar Mishra* Shekhar Chandra Bisht, Pooja Ruwari, Jaideep Kumar Bisht, Jagdish C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora

64	Agricultural Sciences	P	ALLEVIATION OF COLD STRESS BY PSYCHROTOLERANT PLANT GROWTH PROMOTING BACTERIAL CONSORTIUM ON PEA (<i>PISUM SATIVUM</i> L.) SEEDLINGS	Pooja Ruwari* Pankaj K. Mishra, K. Jeevanandan, Jaideep Kumar Bisht, Jagdish C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
65	Agricultural Sciences	O	STUDIED ON RELATIVE PERFORMANCE OF DIFFERENT CUCUMBER [<i>CUCUMIS SATIVUS</i> L.] VARIETIES UNDER PROTECTED ENVIRONMENT	Bhawana Bisht* M.P. Singh B.K. Srivastava	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
66	Agricultural Sciences	O	IDENTIFICATION OF BIOCHEMICAL NATURE OF HOST FACTOR(S) ISOLATED FROM DEVELOPING SPIKES OF WHEAT AND FINDING MAP KINASES AS TARGET INVOLVED IN PATHOGENECITY OF KARNAL BUNT (<i>Tilletia indica</i>)	Atul K Gupta* Anil Kumar ¹ G.K. Joshi ²	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar ¹ Department of Molecular Biology & Genetic Engineering, College of Basic Sciences & Humanities, G B Pant University of Agriculture & Technology, Pantnagar ² Department of Biotechnology, HNB Garhwal University, Srinagar

67	Agricultural Sciences	O	NITROUS OXIDE EMISSION IN DIFFERENT VARIETIES OF VEGETABLE PEA	Shalini Saxena* V.Bharadwaj, N.S. Murty	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
68	Agricultural Sciences	P	EFFECT OF IMPROVED AGRONOMIC PRACTICES ON THE YIELD OF HYBRID RICE	B. D. Singh* R. K. Sharma	Krishi Vigyan Kendra, Matela (Kosi), Almora, Uttarakhand Krishi Vigyan Kendra, Matela (Kosi), Almora, Uttarakhand
69	Agricultural Sciences	O	LINE X TESTER ANALYSIS FOR QUANTITATIVE TRAITS IN BREAD WHEAT (TRITICUM AESTIVUM L.)	E. Lamalakshmi Devi* Swati	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
70	Agricultural Sciences	O	ROLE OF REMOTE SENSING AND GIS IN IPM	Deepa Kumari* Chandrakanta	Department of Zoology, Kumaun University, S.S.J. Campus, Almora Government P.G. College, Bageshwar

71	Agricultural Sciences	O	EFFECT OF ETHREL APPLICATION ON CROP PERFORMANCE AND SEED STORABILITY OF HYBRID RICE	Moirangthem Thoithoi Devi * R.S. Verma	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
72	Agricultural Sciences	O	EFFECT OF DUAL INOCULATION OF <i>Mesorhizobium</i> AND PGPR AND INOCULATION METHODS ON SYMBIOTIC PARAMETERS, NUTRIENT UPTAKE AND YIELD OF CHICKPEA	Sudeshna Bhattacharjya* Ramesh Chandra	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
73	Agricultural Sciences	P	CONSERVATION TILLAGE AND FERTYLIZATION IMPACTS ON SOIL AGGREGATION AND CARBON POOLS UNDER AN IRRIGATED RICE-WHEAT SYSTEM OF THE INDIAN SUB-HIMALAYAS	Ranjan Bhattacharyya* M.D. Tuti, B.L. Mina, J.K. Bisht, J.C. Bhatt	NRL, IARI, Pusa, New Delhi Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora, Uttarakhand
74	Agricultural Sciences	O	EFFECT OF ORANIC AND INORGANIC SOURCES OF NUTRIENTS ON YIELD, ECONOMICS AND ENERGETICS OF CAPSICUM IN NATURALLY VENTILATED POLYHOUSE	Suneeta Singh* M.D. Tuti, J.K. Bisht, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora

75	Agricultural Sciences	O	WATER HARVESTING: SUITABLE OPTION FOR SUSTAINABLE HILL AGRICULTURE	S.C. Panday* D. Mahanta, D.C. Misra, J.K. Bisht, A.K. Srivastava, J.C. Bhatt	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
76	Agricultural Sciences	O	ADOPTION TRENDS IN UTTARAKHNAD HILLS PERTAINING TO THE AGRICULTURE TECHNOLOGY	Nirmal Chandra* A.K. Srivastva	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
77	Agricultural Sciences	O	HETEROSIS AND COMBINING ABILITY ANALYSIS FOR YIELD AND ITS COMPONENTS IN BREAD WHEAT (<i>TRITICUM AESTIVUM L.</i>)	Mamta Singh* R.S. Rawat, J.P. Jaiswal, Anil Kumar	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Genetics and Plant Breeding, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar

78	Agricultural Sciences	O	STUDY ON THE DIFFERENT CAUSES OF FRUIT DROP IN BAEI UNDER TARAI CONDITION OF UTTARAKHAND	Shweta Uniyal* K. K. Misra	College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Horticulture, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar
79	Agricultural Sciences	O	RESPONSE OF RICE (<i>ORYZA SATIVA L.</i>) GENOTYPES TO DROUGHT STRESS AT VEGETATIVE STAGE UNDER RAINFED UPLAND: YIELD AND GRAIN QUALITY	Arunkumar R* P.K. Agarwal, J.P. Aditya, J.C. Bhatt, R.S. Pal, M.D. Tuti, S.C. Pandey	Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora Vivekananda Parvatiya Krishi Anusandhan Sansthan, ICAR, Almora
80	Agricultural Sciences	P	STUDIES ON PARTICIPATION OF RURAL WOMEN IN THE PRODUCTION OF VERMICOMPOST	R.K. Singh* Nirmala Bhatt	KVK, G.B. Pant University of Agriculture and Technology, Pantnagar, Pithoragarh G.B. Pant University of Agriculture and Technology, Pantnagar
81	Biotechnology, Biochemistry & Microbiology	O	BIOREMEDIATION POTENTIAL OF THREE ACCLIMATED BACTERIA WITH REFERENCE TO HEAVY METAL REDUCTION	Ashok Kumar* B.S. Bisht V.D. Joshi	Dept. of Zoology, HNBSU (A Central University), SRT Campus Badshahithaul, Tehri Dept. of Zoology, HNBSU (A Central University), SRT Campus Badshahithaul,

Tehri

82	Biotechnology , Biochemistry & Microbiology	P	CORDYCEPS SINENSIS ONE OF THE MAJOR INCOME GENRATING RESOURCES OF HIMALAYAN INHABITANTS	Arvind Kumar Bhandari * J S Negi, V K Bisht, R C Sundriyal	Herbal Research and Development Institute- Mandal, Gopeshwar, Chamoli Herbal Research and Development Institute- Mandal, Gopeshwar, Chamoli
83	Biotechnology , Biochemistry & Microbiology	O	MOLECULAR MODELING AND DOCKING STUDY OF DECTIN-1 (PAMP) RECEPTOR OF BUBALUSBUBALIS	Brijesh Singh Yadav * D.P.Vashista	Department of Microbiology, H.N.B. Garhwal University, Srinagar Department of Microbiology, H.N.B. Garhwal University, Srinagar
84	Biotechnology , Biochemistry & Microbiology	P	DETERMINING THE INSULIN MIMETIC EFFECTS OF PHYTOCHEMICALS THROUGH COMPARATIVE IN SILICO ANALYSIS OF DOCKING EFFICIENCY WITH INSULIN RECEPTOR TOWARDS DISCOVERY OF HERBAL ANTI-DIABETIC DRUGS	Anshita Goel* Akansha Pandey, Vineeta Singh, Gohar Taj, Anil Kumar	GB Pant University of Agriculture & Technology, Pantnagar GB Pant University of Agriculture & Technology, Pantnagar

85	Biotechnology , Biochemistry & Microbiology	O	COMPARATIVE STUDY OF LIPID PROFILE IN RURAL AND URBAN POPULATION OF DEHRADUN REGION	Gyanendra Awasthi* Vineet Meharotra ¹ M.S.M.Rawat ²	Dolphin (P.G.) Institute of Biomedical and Natural Sciences, Dehradun Himalyan Institute of Medical Sciences, Jolly grant, Dehradun H.N.B.Garwal University, Srinagar Garwal
86	Biotechnology , Biochemistry & Microbiology	O	ISOLATION OF AMYLASE PRODUCING BACILLUS SPECIES FROM SOIL SAMPLE OF DIFFERENT REGION AND TO CHECK THE EFFECT OF PH AND TEMPERATURE ON THEIR ENZYMATIC ACTIVITIES	Kunal Madhav* Satish Verma ¹ Ritu Tanta ¹ Nafees Ahmad ²	Sai Institute of Paramedical and Allied Sciences, Dehradun Sai Institute of Paramedical and Allied Sciences, Dehradun Department of Botany, F.R.I., Dehradun
87	Biotechnology , Biochemistry & Microbiology	P	M-HMM MODEL FOR PREDICTION AND CLASSIFICATION OF DROSOPHILA BASED ON MIRNA NUCLEOTIDE COMPOSITION	Ananjay Kumar Singh* Bhasker Pant, Kireet Joshi	Graphic Era University, Dehradun Graphic Era University, Dehradun
88	Biotechnology , Biochemistry & Microbiology	P	ANTIBACTERIAL ACTIVITY OF VIOLA ODORATA LINN. EXTRACTS AGAINST RESPIRATORY TRACT PATHOGENS	Shiv Shanker Gautam* Navneet	Department of Botany and Microbiology, Gurukul Kangri University, Haridwar Department of Botany and Microbiology, Gurukul Kangri University, Haridwar

89	Biotechnology , Biochemistry & Microbiology	P	CHARACTERIZATION OF PLANT GROWTH PROMOTING RHIZOBACTERIA FROM TOMATO RHIZOSPHERE	Shilpa Guleria* Shruti Agrawal, Pavan Kumar Agrawal	Department of Microbiology Sai Institute of Paramedical and Allied Sciences, Dehradun Department of Microbiology Sai Institute of Paramedical and Allied Sciences, Dehradun
90	Biotechnology , Biochemistry & Microbiology	P	CONVERSION OF SAWDUST INTO ETHANOL	Swati Aggarwal* Mudit Kumar	Graphic Era University, Dehradun Graphic Era University, Dehradun
91	Biotechnology , Biochemistry & Microbiology	O	TECHNIQUES IN CONSERVATION GENETICS OF ENDANGERED SPECIES	Tripti Negi*	Wildlife Institute of India, Dehradun
92	Biotechnology , Biochemistry & Microbiology	O	IDENTIFICATION OF PATHOGENS IN CULTURE OF THAMNOCALAMUS FALCONERI HOOK. F. EX MUNRO (DEV RINGAL) AND THEIR CONTROL IN VITRO	Chandrakant Tiwari* Meena Bakshi ¹ Bhawana Tyagi ²	Forest Research Institute, Dehradun ¹ Forest Research Institute, Dehradun ² Banasthali University, Rajasthan
93	Biotechnology , Biochemistry & Microbiology	O	ISOLATION AND CHARACTERIZATION OF A DROUGHT RESPONSIVE MYB TRANSCRIPTION FACTOR IN Eleusine coracana	Pushpa Lohani* Prafull Salvi, Deepesh Bhatt, Sandeep Arora	Department of Molecular Biology & Genetic Engineering, G.B. Pant University of Agriculture and Technology, Pantnagar G.B. Pant University of Agriculture and Technology, Pantnagar

94	Biotechnology , Biochemistry & Microbiology	P	SURFACE PLASMON RESONANCE BASED IMMUNOSENSOR FOR DETECTION OF FEW TELIOSPORES OF KARNAL BUNT IN WHEAT LOTS FOR PROVIDING EFFECTIVE MEASURES FOR SEED CERTIFICATION	Sadhna Singh* Atul Kumar Gupta ¹ Manoj Singh ¹ Anil Kumar ¹ Sanjay Gupta ²	G.B. Pant University of Agriculture and Technology, Pantnagar ¹ College of Basic Science and Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar ² SBS PG Institute of Biomedical Sciences, Balawala, Dehradun
95	Biotechnology , Biochemistry & Microbiology	p	ANTIMICROBIAL STUDY OF ISOLATED SALMONELLA BY POLYMERASE CHAIN REACTION AND MICROBIOLOGICAL CULTURE FROM FOOD SAMPLES IN INDIA	Kuldeep Kumar* Asha C. Saklani, R.K.Agarwal, Shweta Singh,	HNB Garhwal University, Srinagar Garhwal HNB Garhwal University, Srinagar Garhwal
96	Biotechnology , Biochemistry & Microbiology	P	IN VITRO PROPAGATION OF SUPERIOR GERMPLASM OF DALBERGIA SISOO	Monika Panwar* Ajay Thakur, Ashok Kumar, Mohamad Maqbool Rather	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
97	Biotechnology , Biochemistry & Microbiology	P	TO ANALYZE THE POSITIVITY RATE OF H1N1 VIRUS BY USING REAL – TIME PCR	Monika Singh* Amir Khan	Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun
98	Biotechnology , Biochemistry & Microbiology	P	TO STUDY SEXUALLY TRANSMITTED DISEASES (HPV & CT/NG) BY USING CONVENTIONAL PCR & HYBRID CAPTURE ASSAY TECHNOLOGY	Pradeep Singh Cheema* Amir Khan	Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun

Dehradun

99	Biotechnology , Biochemistry & Microbiology	P	IN -VITRO CALLUS REGENERATION OF DIPLOKNEMA BUTYRACEA (ROXB.) LAM. THROUGH LEAF EXPLANTS FROM MATURE TREE	Arti Kunwar* Ajay Thakur, Prabha Bisht	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
100	Biotechnology , Biochemistry & Microbiology	P	ANTIOXIDANT AND ANTIMICROBIAL ACTIVITY OF PUNICA GRANATUM AGAINST URINARY TRACK INFECTIOS PATHOGENS	Mahesha Nand* Amir Khan	Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun
101	Biotechnology , Biochemistry & Microbiology	P	ENHANCEMENT OF AGRICULTURE THROUGH GENE TRANSFER	Lakhvinder Singh* Amir Khan	Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun Dolphin Post Graduate Institute of Bio-Medical & Natural Sciences Dehradun

10 2	Biotechnology , Biochemistry & Microbiology	O	P-MAPK FINDER: A TOOL FOR PLANT MAP KINASE ANALYSIS	Sugandha Sharma* Saranga Dhar Samantaray, Parvendra Singh, Bonthla Venkata Suresh, Gohar Taj, Anil Kumar	College of Basic Sciences & Humanities, G.B. Pant University of Agriculture & Technology, Pantnagar College of Basic Sciences & Humanities, G.B. Pant University of Agriculture & Technology, Pantnagar
10 3	Biotechnology , Biochemistry & Microbiology	P	<i>IN VITRO</i> PROPAGATION OF <i>VALERIANA WALLICHII</i> DC: AN ENDANGERED MEDICINALLY IMPORTANT PLANT	Prerana Kukreti* Ajay Thakur, Mohamad Maqbool Rather, Monika Panwar, Arti Kunwar	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
10 4	Biotechnology , Biochemistry & Microbiology	O	ANTIFUNFAL ABILITY OF ENDOPHYTIC BACTERIA AND ITS EFFECT ON <i>PSORALEA CORYLIFOLIA</i> L.- A MEDICINALLY IMPORTANT PLANT	Narendra Kumar Maheshwari* Rajat Khillon, Chandra Prabha, R.C. Dubey, D.K. Maheshwari	Gurukul Kangri University, Haridwar Department of Botany and Microbiology, Gurukul Kangri University, Haridwar
10 5	Biotechnology , Biochemistry & Microbiology	O	MULTIFARIOUS PLANT GROWTH PROMOTING FAST GROWING ROOT NODULATING RHIZOBIA FROM <i>PSORALEA</i> <i>CORYLIFOLIA</i> L. GROWING IN UTTARAKHAND	Chandra Prabha* Rajat Khillon, Narendra Maheshwari, R.C. Dubey, D.K. Maheshwari	Gurukul Kangri University, Haridwar Department of Botany and Microbiology, Gurukul Kangri University, Haridwar

10 6	Biotechnology , Biochemistry & Microbiology	O	2, 4- DIACETYLPHLOROGLUCINO L (DAPG) AS ANTAGONISTIC POTENTIAL OF FLUORESCENT PSEUDOMONADS ISOLATED FROM MACROTYLOMA UNIFLORUM L. (HORSEGRAM) RHIZOSPHERE	Rajat Khillon* Narendra Maheshwari, Chandra Prabha, R.C. Dubey, D.K. Maheshwari	Gurukul Kangri University, Haridwar Department of Botany and Microbiology, Gurukul Kangri University, Haridwar
10 7	Biotechnology , Biochemistry & Microbiology	P	A COMPARATIVE STUDY OF RENAL FUNCTION TESTS IN HYPERTENSIVE DISORDERS OF PREGNANCY	Daya Pande* Sangeeta Sing ¹ Geeta Jain ² N.S.Jyala ²	Government Medical College, Haldwani, Nainital ¹ Department of Biochemistry, Government Medical College, Haldwani ² Dr. Susheela Tiwari Memorial Hospital , Haldwani, Nainital
10 8	Biotechnology , Biochemistry & Microbiology	O	PHYTO-GEOGRAPHICAL, MOLECULAR AND CHEMICAL RELATIONSHIPS BETWEEN TWO SPECIES OF PODOPHYLLUM: A SOURCE OF ANTICANCER DRUG	Shilpi Paul* L.M.S. Palni	G.B. Pant Institute of Himalayan Environment and Development, Kosi- Katarmal, Almora GB Pant Institute of Himalayan Environment and Development, Kosi- Katarmal, Almora
10 9	Biotechnology , Biochemistry & Microbiology	P	CULTIVATION OF TRICHODERMA SPP. & BEAUVERIA BASSIANA AS BIOPESTICIDE	Gajendra Prasad Sharma* Ankur Kumar Anand ¹ Manindra Mohan ²	Doon (P.G) Paramedical College and Hospital, Dehradun ¹ Planet Herbs Lifesciences (P) Ltd., Selaqui, Dehradun ² Centre for Aromatic Plants (CAP), Selaqui, Dehradun

110	Biotechnology, Biochemistry & Microbiology	O	EX SITU CONSERVATION OF <i>MEIZOTROPIS PELLITA</i> , AN ENDANGERED AND ENDEMIC PLANT OF KUMAUN HILLS, UTTARAKHAND	Lalit Singh* Tapan Kumar Nailwal	Department of Biotechnology, Bhimtal, Kumaun University, Nainital Department of Biotechnology, Bhimtal, Kumaun University, Nainital
111	Biotechnology, Biochemistry & Microbiology	P	CHARACTERIZING ALGAL SPECIES FOR BIODIESEL PRODUCTION FROM DIFFERENT LAKES OF DISTRICT NAINITAL	Tara Singh Bisht* Alok Shukla	Department of Biotechnology, Bhimtal, Kumaun University, Nainital Department of Biotechnology, Bhimtal, Kumaun University, Nainital
112	Biotechnology, Biochemistry & Microbiology	P	ANTIMICROBIAL ACTIVITY OF ESSENTIAL OILS AGAINST FOODBORNE PATHOGENS: AN ALTERNATIVES OF ANTIBIOTICS	Manindra Mohan* Sanjay Gupta ¹ Hema Lohani ² Prashant Singh ³	Department of Chemistry, D.A.V (P.G) College, Deahradun ¹ SBS PG Institute of Biomedical Sciences, Balawala, Dehradun ² Center for Aromatic Plant, Selaqui, Dehradun ³ Department of Chemistry, D.A.V (P.G) College, Deahradun
113	Biotechnology, Biochemistry & Microbiology	O	PHYTHOCHEMICAL SCREENING OF CASSIA FISTULA AGAINST DIFFERENT BACTERIAL SPECIES	Prerna*	Department of Microbiology, Kanya Gurukul Mahavidyalaya, Gurukul Kangri University, Haridwar

114	Biotechnology, Biochemistry & Microbiology	P	ANTIMICROBIAL ACTIVITY OF NATIVE AND NATURALIZED PLANT GIRARDINIA HETEROPHYLLA OF UTTARAKHAND HIMALAYAN	Namrata* S.C. Dwivedi ¹ B.Singh ²	Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun ¹ Suresh Gyan Vihar University, Jaipur, Rajasthan Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun
115	Biotechnology, Biochemistry & Microbiology	P	COMPARATIVE DROUGHT STRESS MANAGEMENT IN STRESS TOLERANT AND SENSITIVE MILLET VARIETIES OF FINGER MILLET	Arti Bartwal* Sandeep Arora	G.B. Pant University of Agriculture and Technology, Pantnagar College of Basic Science and Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar
116	Biotechnology, Biochemistry & Microbiology	O	ANTIMICROBIAL ACTIVITY OF MEDICINAL PLANT MENTHA ARVENSIS AND CYMBOPOGUM FLEXOSUS	Vijay Vardhan Pandey* Puneet Kumar, Rajat Singh	Dolphin (PG) Institute of Biomedical and Natural Sciences, Dehradun Gayatri College of Biomedical Sciences, Dehradun
117	Biotechnology, Biochemistry & Microbiology	O	STUDY ON PHYTASE PRODUCING TETRATHIOBACTOR SP. PB06 FOR ITS PLANT GROWTH PROMOTING ACTIVITIES	Prashant Singh* Vinod Kumar, Piyush Kumar, Deepak Kumar, Sanjeev Agrawal	Department of Biochemistry, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Biochemistry, G.B. Pant University of Agriculture and Technology, Pantnagar

118	Biotechnology, Biochemistry & Microbiology	O	PARTIAL PURIFICATION AND CHARACTERIZATION OF EXTRACELLULAR ALKALINE PROTEASE FROM BACILLUS MEGATERIUM STRAIN EN2	Keerti* Deepak Kumar, Vinod Kumar, Prashant Singh, Ashok kumar Verma, Ashutosh Dubey	Department of Biochemistry, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Biochemistry, G.B. Pant University of Agriculture and Technology, Pantnagar
119	Biotechnology, Biochemistry & Microbiology	O	SCREENING OF PLANT GROWTH PROMOTING RHIZOBACTERIA (PGPR) OF <i>LYCOPERSICON ESCULENTUM L</i>	Pradeep Kumar* Pankaj Kumar, R.C. Dubey, D.K. Maheshwari	Gurukul Kangri University, Haridwar Department of Botany and Microbiology, Gurukul Kangri University, Haridwar
120	Biotechnology, Biochemistry & Microbiology	O	PRE HARVEST SPROUTING STUDY USING PROTEOMIC APPROACHES	Naincy Girdharwal* Shailender Kumar Verma H.S. Dhaliwal, G.S. Randhawa R. Prasad	Indian Institute of Technology, Roorkee Department of Biotechnology, Indian Institute of Technology, Roorkee
121	Biotechnology, Biochemistry & Microbiology	O	ASSESSMENT OF MORPHOLOGICAL AND GENETIC DIVERSITY IN <i>VALERIANA JATAMANSI</i> JONES IN WEST HIMALAYA	Arun Jugran* Indra D. Bhatt ¹ Ranbeer S. Rawal ¹ Shyamal K. Nandi ¹ Veena Pande ²	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ¹ G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ² Department of Biotechnology, Kumaun University, Nainital

12 2	Biotechnology , Biochemistry & Microbiology	P	PROPAGATION OF <i>ZANTHOXYLUM ARMATUM</i> DC: AN IMPORTANT HIMALAYAN MEDICINAL PLANT	Sumit Purohit* S.K. Nandi	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora
12 3	Biotechnology , Biochemistry & Microbiology	P	<i>IN VITRO</i> REGENERATION OF LOCAL POTATO CULTIVAR OF KUMAUN HILLS	Manisha Dhaka* Tapan Kumar Nainwal	Department of Biotechnology, Bhimtal Campus, Kumaun University, Nainital Department of Biotechnology, Bhimtal Campus, Kumaun University, Nainital
12 4	Biotechnology , Biochemistry & Microbiology	O	EFFECT OF PLANT GROWTH REGULATORS AND ELICITOR ON SECONDARY METABOLITE PRODUCTION IN CELL CULTURE OF <i>HABENARIA EDGEWORTHII</i>	Lalit Giri* Praveen Dhyani ¹ Indra D. Bhatt ¹ Ranbeer S. Rawal ¹ Shyamal K. Nandi ¹ Veena Pande ²	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ¹ G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ² Department of Biotechnology, Kumaun University, Nainital

12 5	Biotechnology , Biochemistry & Microbiology	O	LOCATION SPECIFIC VARIATIONS IN PHENOLIC CONTENT AND ANTIOXIDANT PROPERTIES OF <i>ROSCOEA PROCERA</i> FROM UTTARAKHAND, WEST HIMALAYA	Sandeep Rawat* Indra D. Bhatt ¹ Ranbeer S. Rawal ¹ Shyamal K. Nandi ¹ Veena Pande ²	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ¹ G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ² Department of Biotechnology, Kumaun University, Nainital
12 6	Biotechnology , Biochemistry & Microbiology	O	VARIATION IN TOTAL PHENOLIC CONTENT AND ANTIOXIDANT ACTIVITIES IN <i>ACROUS CALMUS</i> : A HIGH VALUE MEDICINAL PLANT FROM UTTARAKHAND	Amit Bahukhandi* Indra D. Bhatt ¹ Ranbeer S. Rawal ¹	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora ¹ G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora
12 7	Biotechnology , Biochemistry & Microbiology	O	MORPHOLOGICAL AND PHYTOCHEMICAL ATTRIBUTES OF SELECTED APPLE CULTIVARS IN UTTARAKHAND	Praveen Dhyani* Amit Bahukhandi Bhawana Kapkoti Indra D. Bhatt Ranbeer S. Rawal	G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora G.B. Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora

12 8	Botany	P	ETHNO-MEDICINAL PLANTS USED FOR AMENORRHOEA & ABNORMAL MENSTRUATION DISEASES IN CHAMBA BLOCK (TEHRI GARHWAL), UTTARAKHAND	Antima Sharma* L.R Dangwal	Department of Botany, H.N.B. Garhwal Central University, S.R.T. Campus Badshahi Thaul, Tehri Garhwal Department of Botany, H.N.B. Garhwal Central University, S.R.T. Campus Badshahi Thaul, Tehri Garhwal
12 9	Botany	O	PROSPECT OF SILK PRODUCTION IN DISTRICT BAGESHWAR, UTTARAKHAND	M.M. Dhasmana* D.P. Paliwal ¹ A.K. Paliwal ² P.K. Singh ³ M.A. Khan ⁴	REC, Central Silk Board, Bageshwar ¹ REC, Central Silk Board, Bageshwar ² Department of Botany, Central Silk Board, Bageshwa, ³ Regional Sericulture Research Station, Sahaspur ⁴ Central Sericulture Research & Training Institute, Pampore, Jammu & Kashmir

13 0	Botany	O AVAILABILITY OF NATURE GROWN MUGA HOST PLANTS IN NORTH-WESTERN HIMALAYAN STATE UTTARAKHAND AND THEIR EXPLOITATION IN MUGA SILK PRODUCTION	D.P. Paliwal* M.M. Dhasmana ¹ Mahesh Kumar ² P.K. Singh ³ M.A. Khan ⁴	REC, Central Silk Board, Bageshwar, Uttarakhand ¹ REC, Central Silk Board, Bageshwar, Uttarakhand ² Department of Zoology, Govt. PG College, Bageshwar, Uttarakhand ³ Regional Sericulture Research Station, Sahaspur, Uttarakhand ⁴ Central Sericulture Research & Training Institute, Pampore, Jammu & Kashmir
13 1	Botany	P LICHENOMETRIC STUDIES IN GANGOTRI GLACIER REGION (BHAGIRATHI VALLEY): AN INSIGHT INTO THE DISTURBED GEOMORPHOLOGY OF THE AREA	Himanshu Rai* Rajan K Gupta ¹ Dalip K Upreti ²	Pt. L.M.S. Govt PG College, Rishikesh ¹ Pt. L.M.S. Govt PG College, Rishikesh ² Lichenology Laboratory, National Botanical Research Institute, Lucknow

13 2	Botany	P	EFFECTIVE UTILIZATION OF ECO-FRIENDLY INTEGRATED DISEASE MANEGEMENT TO CONTROL FOLIAR DISEASES OF MULBERRY; A POSITIVE APPROACH TO MAKE SERICULTURE REMUNERATIVE AND ECONOMICALLY VIABLE IN DOON –VALLEY	V.B. Srivastava* S.N.SACHAN ¹ T.P.S. Chauhan ² M.K. Tayal ² P.K. Singh ² Anil Dhar ³ M.A. Khan ⁴	Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ¹ D.A.V.(P.G.) College, Deharadun ² Regional Sericultural Research Station, Central Silk Board, Sahaspur, Deharadun ³ Sericultural Research Station, Central Silk Board, Miransahib, Jammu & Kashmir ⁴ Central Sericultural Research & Training Institute, Central Silk Board, Pampore, Srinagar, Jammu & Kashmir
13 3	Botany	P	EFFECT OF ZINC ON GROWTH OF SEEDLINGS OF <i>Cicer arietinum</i>	Neha Saini* A.K. Bhargav	Dept. of Biotechnology, Dev Bhoomi Group of Institutions (DBGI), Dehradun Dept. of Botany, MS College, Saharanpur, Uttar Pradesh
13 4	Botany	O	CONSERVATION AND PROPAGATION OF NARDOSTACHYS JATAMANSI DC	Sandeep Singh* V. K. Purohit, P. Prasad, A. R. Nautiyal	Dept. of Biotechnology, Dev Bhoomi Group of Institutions (DBGI), Dehradun High Altitude Plant Physiology Research Centre, HNB Garhwal University, Srinagar Garhwal, Uttarakhand

13 5	Botany	P	DETERMINATION OF TOLERANCE IN <i>SCLEROTIUM ORYZAE</i> , <i>TRICHODERMA</i> SPP. AND FLUORESCENT PSEUDOMONADS AGAINST SYSTEMIC AND NON-SYSTEMIC FUNGICIDES	Nishant Prakash* A.P. Sinha	GB Pant University of Agriculture & Technology, Pantnagar, Uttarakhand GB Pant University of Agriculture & Technology, Pantnagar
13 6	Botany	O	AN ECOFRIENDLY APPROACH FOR THE MANAGEMENT OF ANTHRACNOSE OF FRENCH BEAN	Deep Shikha Dewal* Dhirendra Mishra	Govt P.G College, Ramnagar, Nainital H.O.D of Botany, Govt P.G College, Ramnagar Nainital
13 7	Botany	O	ETHNOMEDICINAL PLANTS USED FOR THE TREATMENT OF DIABETES AMONG THE VILLAGERS OF DISTRICT TEHRI GARHWAL, UTTARAKHAND, INDIA	L.R. Dangwal*	Department of Botany, H.N.B. Garhwal Central University, S.R.T. Campus, Badshahi Thaul, Tehri Garhwal
13 8	Botany	O	VARIABILITY IN <i>DENDROCALAMUS STRICTUS</i> ROXB. THROUGH MORPHOLOGICAL TRAITS	Saira Malik* Meena Bakshi	Forest Research Institute, Dehradun Plant Physiology, Forest Research Institute, Dehradun
13 9	Botany	O	MITOTIC ANOMALIES IN COLCHIPLOID PLANTS OF <i>ZANTHOXYLUM ARMATUM</i> AND THEIR PROSPECTS IN CYTOGENETICS	Ramdas* G.K. Dhingra, Prerna Pokhriyal	Department of Botany, R.C.U. Govt. (PG) College, Uttarkashi, Uttarkhand Department of Botany, R.C.U. Govt. (PG) College, Uttarkashi, Uttarkhand

14 0	Botany	O	INTERFUNGAL INTERACTION AMONGST DOMINANT MYCOFLORA TO INVESTIGATE MYCOPARASITIC BEHAVIOUR	Deepa Pant* R.C. Gupta	Department of Botany, S.S.J. Campus, Kumaun University, Almora, Uttarkhand Department of Botany, S.S.J. Campus, Kumaun University, Almora
14 1	Botany	O	DISTRIBUTION OF LICHENS ON <i>QUERCUS</i> TWIGS IN NAINITAL DISTRICT, UTTARAKHAND	Gaurav K. Mishra* D.K. Upreti ¹ Y.Joshi ² N. Punetha ³	Government PG College, Pithoragarh, Uttarakhand ¹ National Boranical Research Institute, Lucknow ² S.S.J. Campus, Kumaun University, Nainital, Uttarakhand ³ Government PG College, Pithoragarh, Uttarakhand
14 2	Botany	O	ANTIOXIDENT QUERCETIN GLYCOSIDES FROM BOERHAAVIA DIFFUSA LINN	Shweta Majgaine* D.L Verma	Department of Botany, S.S.J. Campus, Kumaun University, Almora Department of Botany, S.S.J. Campus, Kumaun University, Almora
14 3	Botany	P	REPRODUCTIVE PHENOLOGY AND CLONAL PROPAGATION OF AN IMPORTANT MEDICINAL SPECIES - SARACA ASOCA ROXB	Ankur Vichitra* Meena Bakshi	Forest Research Institute, Dehradun, Uttarakhand Forest Research Institute, Dehradun, Uttarakhand

14 4	Botany	O	ANTIOXIDATIVE FLAVONOL GLYCOSIDE FROM THE LEAVE OF <i>GINKGO BILOBA</i>	Beena Chanyal* P.Kumar, D.L. Verma	Department of Botany, S.S.J. Campus, Kumaun University, Almora Department of Botany, S.S.J. Campus, Kumaun University, Almora
14 5	Botany	P	IDENTIFICATIOJ OF PATHOGENS IN CULTURE OF <i>THAMNOCALAMUS FALCONNERI HOOK. F</i> .EX MURNO (DEV RINGAL) AND THEIR CONTROL <i>IN VITRO</i>	Chandrakant Tewari* Meena Bakshi ¹ Bhawana Tyagi ²	Forest Research Institute, Dehradun ¹ Forest Research Institute, Dehradun ² Forest Research Institute and Vanasthali, Rajasthan
14 6	Botany	P	CONSERVATION AND CULTIVATION TECHNIQUES OF <i>HEDYCHIUM SPICATUM</i> BUCH. HAM.: EFFECT OF DIFFERENT NURSERY BEDS AND ORGANICS	Nidhi Lohani* Ravi Kumar ¹ G.C. Joshi ¹ Lalit M. Tewari ²	C.C.R.A.S., Tarikhet, Ranikhet, Uttarakhand ¹ C.C.R.A.S., Tarikhet, Ranikhet, Uttarakhand ² Department of Botany, S.S.J. Campus, Kumaun University, Almora
14 7	Botany	O	LICHEN EXPLORATION AND CLIMATE CHANGE STUDIES IN UTTARAKHAND	Santosh Joshi* D. K. Upreti ¹ N. Punetha ²	Department of Botany, Government Postgraduate College, Pithoragarh ¹ Lichenology Laboratory, CSIR-National Botanical Research Institute, Rana Pratap Marg, Lucknow ² Department of

					Botany, Government Postgraduate College, Pithoragarh
14 8	Botany	O	FLOWERING PHENOLOGY IN HIGH ALTITUDES OF UTTARAKHAND	D.S. Rawat*	Department of Biological Sciences, G.B.Pant University of Agriculture & Technology, Pantnagar
14 9	Botany	P	POTENTIAL OF VAN PANCHAYAT FOREST; AS A SINK AND CARBON SEQUESTRATION	Vardan Singh Rawat* Ashish Tewari, Y.S. Rawat	D.S.B. Campus, Kumaun University, Nainital D.S.B. Campus, Kumaun University, Nainital
15 0	Botany	O	<i>IN VITRO</i> EVALUATION OF PROGRAMMED CELL DEATH IN THE LEAVES OF <i>ACER OBLONGUM</i> DUE TO DIAMINE PUTRESCINE (POLYAMINE)	Poonam Bisht* P. Prasad	HAPPRC, H.N.B. Garhwal University, (A Central University), Srinagar Garhwal HAPPRC, H.N.B. Garhwal University, (A Central University), Srinagar Garhwal

15 1	Botany	O	EFFECT OF DROUGHT STRESS ON ANTIOXIDANT ENZYMES IN RICE (ORYZA SATIVA L.)	Dipti Verma* Rashmi Verma ¹ Alok Shukla ²	Devsthali Vidyapeeth Lalpur, Kiccha Road, Rudrapur College of Basic Sciences and Humanities, G. B. Pant University of Agriculture and Technology, Pantnagar Department of Biotechnology, Kumaun University, Bhimtal, Nainital
15 2	Botany	O	REGENERATION OF <i>Stevia rebaudiana</i> (BIO-SWEETENER) THROUGH IN-VITRO CULTURE	Rashmi Verma* Dipti Verma ¹ Gurdeep Bains ²	College of Basic Sciences and Humanities, G. B. Pant University of Agriculture and Technology, Pantnagar ¹ Devsthali Vidyapeeth Lalpur, Kiccha Road, Rudrapur ² College of Basic Sciences and Humanities, G. B. Pant University of Agriculture and Technology, Pantnagar
15 3	Botany	O	STATUS OF BIPARTITE AND TRIPARTITE CYANOLICHENS FROM UTTARAKHAND	Roshni Khare* R.K.Gupta ¹ D.K.Upreti ²	Department of Botany, Pt. L. M. S. Govt. P.G. College, Rishikesh, Dehradun ¹ Pt. L. M. S. Govt. P.G. College, Rishikesh, Dehradun ² Lichenology Laboratory, National Botanical Research Institute,

CSIR,
Lucknow

15 4	Botany	O	DIVERSITY AND DISTRIBUTION OF VALERIANA JATAMANSI JONES IN UTTARAKHAND	Neha Tiwari* Mamta Purohit A.R. Nautiyal	H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal
15 5	Botany	O	VALERIANA JATAMANSI : MEANS OF PROPAGATION BY VEGETATIVE METHODS	Mamta Purohit* Neha Tiwari A.R. Nautiyal	H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal
15 6	Botany	O	SOMATIC EMBRYOGENESIS IN <i>HEDYCHUM SPICATUM</i> BUCH-HAM EX SM: A VULNERABLE MEDICINAL PLANT OF THE HIMALAYA	Dinesh Giri* Sushma Tamta	Department of Botany, D.S.B. Campus, Kumaun University, Nainital Department of Biotechnology Bhimtal Campus, Kumaun University, Nainital

15 7	Botany	P	DIVERSITY AND DISTRIBUTION OF LICHEN GROWTH-FORMS ALONG ALTITUDINAL AND LANDUSE GRADIENTS IN CHAMOLI, UTTARAKHAND	Preeti Shukla* D. K. Upreti ¹ L. M. Tewari ² Himanshu Rai ³	Department of Botany, D.S.B. Campus, Kumaun University, Nainital ¹ Lichenology Laboratory, National Botanical Research Institute, CSIR, Lucknow ² Department of Botany, D.S.B. Campus, Kumaun University, Nainital ³ Department of Botany, Pt.L.M.S. Govt. P.G College, Rishikesh, Dehradun
15 8	Botany	P	EFFECT OF CLIMATE CHANGE ON MOUNTAIN LIFE AND ECOSYSTEM FUNCTIONING: A CASE STUDY OF A NAGTIBBA MOUNTAIN IN CENTRAL GARHWAL HIMALAYA	Uday Nand Gaur*	Govt. College, Ghorakhuri, Tehri Garhwal
15 9	Botany	P	AN OUTLINE OF LICHEN DIVERSITY IN UTTARAKHAND, INDIA	Sanjeeva Nayaka* D. K. Upreti ¹ Himanshu Rai ²	Department of Botany, Pt. LMS Govt. PG College, Rishikesh, Dehradun ¹ Lichenology Laboratory, National Botanical Research Institute, CSIR, Lucknow ² Department of Botany, Pt. L.M.S. Govt. P.G College, Rishikesh, Dehradun

16 0	Botany	O	NATURAL REGENERATION ASSESSMENT OF <i>C. TAMALA</i> IN ITS NATURAL HABITAT	Gunjan Sharma* A.R. Nautiyal	H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal H.A.P.P.R.C., H.N.B. Garhwal University, A Central University, Srinagar Garhwal
16 1	Botany	P	ENHANCEMENT OF RATE OF PLANTLET FORMATION IN <i>QUERCUS SERRATA</i> THUNB. THROUGH <i>IN VITRO</i> METHODS: AN IMPORTANT TASAR OAK	Aseesh Pandey* Sushma Tamta	Department of Biotechnology, Bhimtal, Kumaun University, Nainital Department of Biotechnology, Bhimtal, Kumaun University, Nainital
16 2	Botany	O	STANDING CROP BIOMASS AND NET PRIMARY PRODUCTION OF <i>C. WINTERIANUS</i> CULTIVATION AS AFFECTED BY FOLIAR APPLICATION OF DIFFERENT CONCENTRATION OF COPPER SULPHATE	Jai Laxmi Rawat* A.K. Agrawal	Department of Botany, Govt. P.G. College, Uttarkashi Department of Botany, Govt. P.G. College, Uttarkashi
16 3	Botany	O	NET PRIMARY PRODUCTIVITY AND SYSTEM TRANSFER FUNCTION AND IN SUB TEMPERATE GRASSLAND OF UTTARKASHI DISTRICT	Mahendra Pal Singh Parmar* M.D Kushwaha A.Singh G.K.Dhingra Jaijalakshmi Rawat	Department of Botany, Govt. P.G. College, Uttarkashi Department of Botany, Govt. P.G. College, Uttarkashi
16 4	Botany	O	MEDICINAL PLANTS USED BY BHOTIA TRIBE OF 'JOSHIMATH' BLOCK OF DISTRICT CHAMOLI UTTARAKHAND INDIA	Harish Kumar* Geeta Sadana	Garg Degree College, Laksar, Haridwar, Uttarakhand Garg Degree College, Laksar, Haridwar, Uttarakhand

16 5	Botany	O	STATUS OF INVASIVE ALIEN SPECIES IN CHILLAWALI RANGE OF RAJAJI NATIONAL PARK AND THEIR IMPACT ON SOIL	Swati Semwal* Kusum Arunachalam	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun
16 6	Botany	O	STUDIES ON ETHNO-VETERINARY USAGES OF MEDICINAL PLANTS BY PEOPLE IN GARHWAL HIMALAYAN REGION	Arun Bhatt* Mamta Baunthiyal	G.B. Pant Engineering College, Pauri Garhwal Department of Biotechnology, G.B. Pant Engineering College, Pauri Garhwal
16 7	Botany	O	INTER-POPULATION AND INTRA-POPULATION VARIATION IN SEED MORPHOLOGICAL TRAITS OF JATROPHA CURCAS: A BIOFUEL PLANT	Kshitij Malhotra* Dinesh Kumar ¹ Vidya Dhar Pandey ²	Silviculture Division, Forest Research Institute, Dehradun ¹ Silviculture Division, Forest Research Institute, Dehradun ² Department of Botany, Pt. L.M.S. Govt. P.G. College, Rishikesh
16 8	Botany	O	MEDICINAL USE OF SOME COMMON PLANTS OF TARAI AND BHAWAR OF KUMAUN, UTTARAKHAND	Bhasker Joshi* S.C. Pant	Department of Botany, R.H. Government P.G. College, Kashipur Government Degree College, Gairsain, Chamoli

16 9	Botany	O	MORPHOLOGICAL VARIATIONS IN THE LEAVES OF A THREATENED MEDICINAL PLANT: <i>OROXYLUM INDICUM</i> (L.) VENT	Bhawana Joshi Pande* R. C. Gupta ¹ Y. S. Rawat ²	Department of Botany, Kumaun University, S.S.J. Campus, Almora ¹ Department of Botany, Kumaun University, S.S.J. Campus, Almora ² Department of Botany, Kumaun University, D.S.B. Campus, Almora
17 0	Botany	O	MEDICINALLY IMPORTANT PLANTS FROM BAGESHWAR DISTRICT OF UTTARAKHAND	Chandra Kanta* A. K. Paliwal ¹ Deepa Kumari ²	Government P. G. College, Bageshwar ¹ Department of Botany, Government P. G. College, Bageshwar ² Department of Zoology, Kumaun University, S.S.J. Campus, Almora
17 1	Botany	P	ECONOMIC UPLIFTMENT OF MARGINAL FARMERS OF ARID AREAS OF RAJASTHAN THROUGH KHEJARI	S.R. Baloch* Lokho Puni	Forest Research Institute, (Indian Council of Forestry Research & Education, Dehradun NWFP Division, Forest Research Institute, (Indian Council of Forestry Research & Education, Dehradun

17 2	Chemistry	O	CHEMICAL COMPOSITION AND ANTIOXIDANT ACTIVITY OF GRANGEA MADERASPATANA (L.) POIR	Darshan Singh* B.S. Bisht	Phytochemistry Research Laboratory, Chemistry Department, D.S.B. Campus, Kumaun University, Nainital Phytochemistry Research Laboratory, Chemistry Department, D.S.B. Campus, Kumaun University, Nainital
17 3	Chemistry	P	FURANOEREMOPHILAN DERIVATIVE AND OTHER TERPENOIDES FROM SENECCIO CHRYSANTHEMOIDES DC.	Balam Singh Bisht* Darshan Singh	Phytochemistry Research Laboratory, Chemistry Department, D.S.B. Campus, Kumaun University, Nainital Phytochemistry Research Laboratory, Chemistry Department, D.S.B. Campus, Kumaun University, Nainital
17 4	Chemistry	O	DYEING PROPERTIES OF ISOLATED NATURAL DYES FROM ERYTHRINA SUBEROSA ON WOOL AND COTTON FIBERS USING BOTANICAL AND CHEMICAL MORDANTS	Shyam Vir Singh* Reena Purohit ¹ M.C. Purohit ¹	Department of Chemistry, H.N.B. Garhwal University Campus Pauri, Pauri Garhwal ¹ Department of Chemistry, H.N.B. Garhwal University Campus Pauri, Pauri Garhwal

17 5	Chemistry	P	MADHUCA LONGIFOLIA AS A POTENT ANTI-INFLAMMATORY AGENT AND ANTIMICROBIAL AGENT AGAINST MICROBIAL PATHOGENS	Reena* Shamvir M.C. Purohit	Department of Chemistry, H.N.B. Garhwal University Campus Pauri, Pauri Garhwal, Uttarakhand Department of Chemistry, H.N.B. Garhwal University Campus Pauri, Pauri Garhwal, Uttarakhand
17 6	Chemistry	O	ANTIOXIDANT ACTIVITY FROM AQUEOUS-METHANOLIC EXTRACT OF OLEA CUSPIDATA AND IDENTIFICATION OF PRINCIPAL ACTIVE FLAVONOIDS	Preeti Majgaine * D. L. Verma	Department of Chemistry, S.S.J. Campus, Kumaun University, Almora Department of Chemistry, S.S.J. Campus, Kumaun University, Almora
17 7	Chemistry	P	SYNTHESIS AND ELECTROCHEMICAL CHARACTERIZATION OF NANOCUBIC MANGANESE HEXACYANIDOCOBALTATE	Shah Raj Ali* Prakash Chandra ¹ Mamta Latwal ¹ Shalabh Jain ² Vipin Kumar ² Bansal ³ Sudhanshu Pratap Singh ³	Department of Chemistry, Kumaun University, Nainital, Uttarakhand ¹ Department of Chemistry, Kumaun University, Nainital, Uttarakhand ² Department of Chemistry, Gurukula Kangri University, Haridwar, Uttarakhand ³ Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand

17 8	Chemistry	O	COPPER HEXACYANIDOCOBALTATE NANOPARTICLES AS HETEROGENEOUS CATALYST FOR SOLVENT- FREE OXIDATION OF BENZYL ALCOHOL	Mamta Latwal* Shah Raj Ali ¹ Prakash Chandra ¹ Shalabh Jain ² Vipin Kumar ² Bansal ³ Sudhanshu Pratap Singh ³	Department of Chemistry, Kumaun University, Nainital ¹ Department of Chemistry, Kumaun University, Nainital ² Department of Chemistry, Gurukula Kangri University, Haridwar ³ Department of Chemistry, Indian Institute of Technology Roorkee, Roorkee
17 9	Chemistry	P	ALKYL AND ARYL TIN (IV) COMPLEXES OF PHENOL DERIVATIVES DERIVED FROM ALANINE : SYNTHESIS AND CHARACTERISTIC SPECTRAL STUDIES	Robina Aman* Garima Matela	Department of Chemistry, Kumaun University, S.S.J. Campus, Almora Kumaun University, S.S.J. Campus, Almora
18 0	Chemistry	O	SEPARATION, IDENTIFICATION AND CHARACTERIZATION OF CHEMICAL CONSTITUENTS OF MANGIFERA INDICA (L.) WOOD EXTRACT	Ruchi Singh* A. N. Garg	Dev Sanskriti University, Haridwar Institute of Nuclear Science and Technology, Amity University, Noida
18 1	Chemistry	O	EUPATILIN 3-O-2,6- DIRHAMNOSYL- GALACTOSIDE FROM BOERHAAVIA diffusa Linn	Navabha Joshi* D. L. Verma	Deptt. of Chemistry, S.S.J. Campus, Kumaun University, Almora Deptt. of Chemistry, S.S.J. Campus, Kumaun University, Almora

18 2	Chemistry	P	PHYTO-PHYSICO CHEMICAL EVALUATION AND ANTIMICROBIAL ACTIVITY OF ESSENTIAL OIL OF ARTEMISIA DRACUNCULUS L.	Naveen Kumar* J.S Jagwan	Department of Chemistry, H.N.B Garhwal University, Campus Badshahi Thaul, Tehri Garhwal Department of Chemistry, H.N.B Garhwal University, Campus Badshahi Thaul, Tehri Garhwal
18 3	Chemistry	O	CHEMICAL CONSTITUENTS OF MARTYNIA ANNUA ROOT	Bhawana Bhatt* G.S. Rawat	Department of Chemistry, R. H. G. (PG) College, Kashipur Govt. Degree College, Kapkote, Bageshwar
18 4	Chemistry	O	ESSENTIAL OIL COMPOSITION AND ANTIMICROBIAL ACTIVITY OF LOBELIA PYRAMIDALIS WALL	Devendra Mishra* Shivani Joshi, Ganga Bisht, Khadak Singh, Khetwalb	Department of Applied Chemistry, Birla Institute of Applied Sciences, Bhimtal Department of Chemistry, Kumaun University, Nainital
18 5	Chemistry	P	CHEMICAL COMPOSITION AND FREE RADICAL SCAVENGING ACTIVITY OF ZANTHOXYLUM ARMATUM DC ESSENTIAL OIL	Jagmohan Singh Negi* V.K. Bisht ¹ A.K. Bhandari ¹ R.C. Sundriyal ¹ Pramod Singh ²	Herbal Research and Development Institute, Gopeshwar ¹ Herbal Research and Development Institute, Gopeshwar ² HNB Garhwal University, Srinagar
18 6	Chemistry	O	SYNTHESIS AND BIOLOGICAL EVALUATION OF SOME TIN- AND ORAGANOTIN COMPLEXES OF N-(2-HYDROXY-3-ISOPROPYL-6-METHYL BENZYL) GLYCINE AS	Garima Matela* Robina Aman	Department of Chemistry, Kumaun University, S.S.J. Campus, Almora Department of

			ANTIMICROBIAL AGENTS		Chemistry, Kumaun University, S.S.J. Campus, Almora
18 7	Chemistry	O	DETERMINATION OF PICROSIDES (PICROSIDE I AND PICROSIDE II) IN POPULATION LINES OF <i>PICRORHIZA KURROA</i> GROWN IN DOLPA AND DOLKHA DISTRICTS OF NEPAL USING HPTLC	J. N. Sah* V.K. Varshney	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
18 8	Chemistry	O	THE INTACT FRACTIONATION OF PECTIC SUBSTANCES PRIVILEGED FROM THE FRUITS OF <i>DIOSPYROS PEREGRINA</i>	Deepika Chauhan* P. K. Gupta	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
18 9	Chemistry	O	UTILIZATION OF THE LEAVES FROM <i>POPULUS DELTOIDES</i> FOR PRODUCTION OF PROTEIN CONCENTRATES	L.H. Khan* V.K.Varshney, Sanjay Naithani	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
19 0	Chemistry	O	HEAT INDUCED SYNTHESIS OF PURINE PYRIMIDINE BASES FROM REACTION SYSTEM OF ACETYLENE, AMMONIA AND WATER VAPOUR IN PRESENCE AND ABSENCE OF MONTMORILLONITE CLAY WIYH OR WITHOUT DIVALENT CATIONS UNDER PREBIOTIC WETTING DRYING CONDITIONS	Kavita Gururani* Namrata Pandey, C.K.Pant	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital
19 1	Chemistry	P	SURFACE INTERACTION OF AMINO ACIDS WITH METAL FERROCYANIDES IN RELEVANCE TO CHEMICAL EVOLUTION	Namrata Pandey* Kavita Gururani, C.K.Pant	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University,

					Nainital
19 2	Chemistry	P	SPASMODIC RESPONSE AND NEUROGENIC MECHANISM OF WATER EXTRACT OF VERNONIA CINEREA (L.) LESS ON RAT DUODENUM	Ganesh Pandey* S.K. Hore, V.K. Kasana	Department of Chemistry, G.B. Pant University of Agriculture and Technology, Pantnagar Department of Chemistry, G.B. Pant University of Agriculture and Technology, Pantnagar
19 3	Chemistry	P	FLAVONIDS FROM OLEA PENDOLINO LINN	D.L Verma* Preeti Majgaine	Department of Chemistry, S.S.J. Campus, Kumaun University, Almora Department of Chemistry, S.S.J. Campus, Kumaun University, Almora
19 4	Chemistry	O	UTILIZATION OF TAGETES MINUTA AND TERMINALIA CHEBULA AS A SOURCE OF NATURAL DYE	Praveen Onial* Rakesh Kumar	Forest Research Institute, Dehradun, Uttarakhand Forest Research Institute, Dehradun, Uttarakhand
19 5	Chemistry	O	HPTLC FINGER PRINTING AND ANTIMICROBIAL POTENTIAL OF STEM BARK EXTRCT OF <i>FICUS BENGHALENSIS</i>	Lalit Kumar* Rakesh Kumar	Doon (PG) Paramedical College, Dehradun Forest Research Institute, Dehradun, Uttarakhand

19 6	Chemistry	O	HPTLC FINGER PRINTING OF TERMINALIA ARJUNA AND TERMINALIA TOMENTOSA STEM BARK	Sougata Maiti* Rakesh Kumar	Gayatri College of Bio Medical Sciences, Dehradun Forest Research Institute, Dehradun, Uttarakhand
19 7	Chemistry	O	MICELLIZATION OF SODIUM LAURYL SULPHATE IN PRESENCE OF MALONATE ION	Renu Loshali* R. Joshi, B. Chandra, Neeti Shah, N. D. Kandpal	Department of Chemistry, S.S.J. Campus, Kumaun University, Almora Department of Chemistry, S.S.J. Campus, Kumaun University, Almora
19 8	Chemistry	O	FLAVONOL-3, 7-DI-O- GLYCOSIDES FROM ACONITUM LEAVE	Pappu Kumar* D.L. Verma	Department of Chemistry, S.S.J. Campus, Kumaun University, Almora Department of Chemistry, S.S.J. Campus, Kumaun University, Almora
19 9	Chemistry	P	ISOLATION OF COMPOUND FROM EXTRACT AND ESSENTIAL OIL OF <i>COLEUS BARBATUS ROOTS</i>	Ranveer Singh* Sonia Saklani	Gayatri College of Bio-Medical Science, Dehradun Gayatri College of Bio-Medical Science, Dehradun
20 0	Chemistry	O	ESTIMATION OF SURFACTANTS BY ION CHROMATOGRAPHY	Sanjay Goyal* Savita G. Aggarwal, Sachin Chauhan	Gayatri College of Bio-Medical Science, Dehradun Gayatri College of Bio-Medical Science, Dehradun

20 1	Chemistry	O	STUDY ON THE DERIVATIVES OF NEEM OIL BY TRANSESTERIFICATION	Prerna Singh Chauhan* Ajay Singh ¹ V.K. Chhibber ²	Uttaranchal Institute of Technology, Dehradun ¹ Uttaranchal Institute of Technology, Dehradun ² Shivalik College of Engineering, Dehradun
20 2	Chemistry	O	TRACE ELEMENTS DETECTED FROM HIMALYAN RHUBARB BY AAS	Pramod Singh* Bipin Rawat, Jagmohan S. Negi, M.S.M. Rawat Geeta Joshi nee Pant	Department of Chemistry, HNB Garhwal University, Srinagar Garhwal Department of Chemistry, HNB Garhwal University, Srinagar Garhwal
20 3	Chemistry	P	HEALTH RISK ASSESSMENT OF HEAVY METALS IN TARAI REGION OF KUMAUN HIMALAYA	Shalini Singh* Geeta Tewari, Chitra Pande, Charu Singh, Girish Kharkwal	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital
20 4	Chemistry	P	CHEMICAL COMPOSITION OF ESSENTIAL OIL EXTRACTED FROM CENTELLA ASIATICA GROWING IN UTTARAKHAND	Anju Bhatnagar*	D.B.S. (P.G.) College, Dehradun
20 5	Chemistry	O	CHEMICAL ANALYSIS OF AGAVE SISALANA JUICE FOR ITS POSSIBLE UTILIZATION	Shipra Sharma* V.K. Varshney	Forest Research Institute, Dehradun Forest Research Institute, Dehradun

20 6	Chemistry	P	PHYTOREMEDIATION OF METAL CONTAMINATED SOILS BY USING <i>OCIMUM BASILICUM</i> AND <i>MENTHA ARVENSIS</i> ; A COMPARATIVE STUDY	Charu Singh* Chitra Pande, Geeta Tewari, Shalini Singh Girish Kharkwal	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital
20 7	Chemistry	P	TERPENOID COMPOSITION OF ESSENTIAL OIL AND BIOACTIVITY FROM <i>HELENIUM GRANDIFLORUM</i> (WILLD) O. KUNTZE	Lalit Mohan* Anand B. Melkani Charu C. Pant	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital
20 8	Chemistry	P	PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITY OF THE ESSENTIAL OIL FROM <i>AECHMENTHARA GOSSYPINA</i> (WALL.) NEES	Charu C. Pant* Anand B. Melkani Lalit Mohan	Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital Department of Chemistry, D.S.B. Campus, Kumaun University, Nainital
20 9	Chemistry	P	DIMETHYL 4,4'-(O-PHENYLENE) BIS(3-THIOALLOPHANATE) BASED ELECTROCHEMICAL SENSOR FOR COPPER IONS	Sunita Kumar* Bhavana Sethi ¹ Rakesh Singh ² L.P. Singh ³	Department of Chemistry, M.K.P. (PG) College, Dehradun ¹ Department of Chemistry, M.K.P. (PG) College, Dehradun ² Department of Chemistry, D.S.B. (PG) College, Dehradun ³ CSIR-Central

Building Research
Institute,
Roorkee

21 0	Chemistry	P	MECHANISM OF TRANSFER OF PESTICIDES IN TO DRINKING WATER	Rakesh Singh*	Department of Chemistry, D.B.S. (PG) College, Dehradun
21 1	Chemistry	O	ADVANCED AND MODERN METHODS OF DETECTION OF CHLORINATED PESTICIDES IN DRINKING WATER	Richa Seth* Rakesh Singh ¹ Prashant Singh ² P.C Kimothi ³ S.K Gupta ³ Subodh Kumar ³	Department of Chemistry, D.S.B. (PG) College, Dehradun ¹ Department of Chemistry, D.S.B. (PG) College, Dehradun ² Department of Chemistry, D.A.V. (PG) College, Dehradun ³ Uttarakhand Jal Sansthan, Dehradun

21 2	Chemistry	O	INSECTICIDAL ACTIVITY OF DIFFERENT PLANT EXTRACTS AGAINST LIPHAPHIS ERYSIMI KALTENBACK	Rakesh Raturi* Harpreet Singh ¹ P. P. Badoni ¹ S. C. Sati ²	Department of Chemistry, HNB Garhwal Central University, Campus Pauri Garhwal ¹ Department of Chemistry, HNB Garhwal University, Srinagar Garhwal ² Department of Chemistry, HNB Garhwal Central University, Srinagar, Garhwal
21 3	Chemistry	O	ANTIFUNGAL POTENTIAL AND HPTLC FINGER PRINTING OF DIPLOKNEA BUTYRACEA SEEDS	Sapna Tyagi* Rashmi	Chemistry Division, Forest Research Institute, Dehradun, Uttarakhand Chemistry Division, Forest Research Institute, Dehradun, Uttarakhand
21 4	Chemistry	O	ANTIOXIDANT CAPACITY AND TOTAL PHENOLICS CONTENTS OF DENDROCALAMUS STRICTUS LEAVES	Himani Pande* V.K.Varshney	Forest Research Institute, Dehradun, Uttarakhand Forest Research Institute, Dehradun, Uttarakhand
21 5	Chemistry	O	ROLE OF MONO UNSTURATED FATTY ACIDS IN THE NUTRITIONAL MANAGEMENT OF DIABETES MELLITUS	Geetika Rawat* Dinesh Gupta ¹ S. K. Singhal ²	Department of Chemistry, Drona's College of Management and Technical Education, Dehradun ¹ Dental College, Dehradun ² Manav Bharti University, Solan, Himachal Pradesh

21 6	Chemistry	O	LUBRICITY STUDIES OF SYNTHESIZED DODECENYL SUCCINATE DERIVATIVES OF MONO, DI AND POLY SACCHARIDES	G. M. Bahuguna*	Indian Institute of Petroleum, Dehradun
				Raj K. Singh, Om P. Sharma, Raghuvir Singh	Indian Institute of Petroleum, Dehradun
				Bhawna Naudiyal	School of Environment and Natural Resources, Doon University, Dehradun
21 7	Chemistry	O	ANTIBACTERIAL EVALUATION AND PHYTOCHEMICAL SCREENING OF SOME MEDICINAL PLANTS	I.P. Pandey*	Environmental & Disaster Management Lab, D.A.V. (P.G.) College, Dehradun
				Suman Lata Chhimwal, S. Farooq	Environmental & Disaster Management Lab, D.A.V. (P.G.) College, Dehradun
21 8	Chemistry	O	CHEMICAL COMPOSITION AND WOUND HEALING ACTIVITY OF VOLATILE OIL OF LEAVES OF AZADIRACHTA <i>INDICA</i> A.JUSS	Suman Lata Chhimwal*	Environmental & Disaster Management Lab, D.A.V. (P.G.) College, Dehradun
				S.Farooq I.P.Pandey	Environmental & Disaster Management Lab, D.A.V. (P.G.) College, Dehradun
21 9	Chemistry	O	DIAGNOSTIC INVESTIGATION INTO WEATHERING OF STONE SUBSTRATE OF TALLI HAT AND BAIJNATH GROUP OF TEMPLE NECESSITATED FORMULATING IN SITU CONSERVATION MEASURES	Shilpa Raturi*	Archaeological Survey of India, New Cantt Road, Dehradun, Uttarakhand
				K.S. Rana, Raghu Prakash	Archaeological Survey of India, New Cantt Road, Dehradun, Uttarakhand

22 0	Chemistry	O	SYNTHESIS AND CHARACTERIZATION OF NANOMETRIC ZINC OXIDE AND TRANSITION METAL DOPED ZINC OXIDE FOR ANTIBACTERIAL APPLICATION	Sulaxna Sharma* Devendra Naik, Naveen Navani, Vijaya Agarwala	Indian Institute of Roorkee, Roorkee Indian Institute of Roorkee, Roorkee
22 1	Chemistry	O	STRUCTURAL STUDIES ON TINOSPORA SINENSIS POLYSACCHARIDE	Shipra Nagar* Vineet Kumar Y.C. Tripathi	Chemistry Division, Forest Research Institute, Dehradun Chemistry Division, Forest Research Institute, Dehradun
22 2	Chemistry	O	STUDY OF VISCOSITY OF OIL-IN-OIL EMULSIONS WITH DIFFERENT SURFACTANTS	Navneet Rai* I.P. Pandey	Environmental & Disaster Management Lab., D.A.V. (P.G.) College, Dehradun Environmental & Disaster Management Lab., D.A.V. (P.G.) College, Dehradun
22 3	Chemistry	O	NATURAL PRODUCTS AND ANTIBACTERIAL ACTIVITY OF THE ESSENTIAL OIL FROM SALVIA LEUCANTHA CAV.	Mohammad S. Javed* Ananad B. Mekani	Chemistry Department, Kumaun University, Nainital Chemistry Department, Kumaun University, Nainital
22 4	Chemistry	O	STUDY OF PARTICLE SIZE DISTRIBUTION FOR OIL-IN-WATER EMULSIONS AS THE FUNCTION OF AGITATION	Harish Chandra Joshi* I.P. Pandey Navneet Rai	Environmental & Disaster Management Lab., D.A.V. (P.G.) College, Dehradun Environmental & Disaster Management Lab., D.A.V. (P.G.) College, Dehradun

22 5	Chemistry	O	MICROWAVE ASSISTED REACTIVE-EXTRACTION OF NEEM AND KARANJA SEEDS FOR BIODIESEL PRODUCTION	Jyoti Porwal* Savita Kaul Dinesh Bangwal M.O.Garg	CSIR-Indian Institute of Petroleum, Dehradun Indian Institute of Petroleum, Dehradun
22 6	Chemistry	P	SYNTHESIS, CHARACTERIZATION AND ANTIFUNGAL ACTIVITY OF TRIVALENT AND TETRAVALENT METAL AND NON-METAL DERIVATIVES OF 2-HYDROXY-1-NAPHTHOIC ACID	Deepti Joshi* N.K. Sand	M.B.P.G. College, Kumaun University, Haldwani Department of Chemistry, G.B. Pant University of Agriculture and Technology, Pantnagar
22 7	Earth Sciences including Geology, Geomorphology, Geophysics & Glaciology	O	MODELLING THE EFFECT OF CLIMATE CHANGE ON MELT-RUNOFF FROM GANGOTRI GLACIER USING STEP-WISE REGRESSION MODEL, DURING ABLATION SEASON	Amit Kumar* Naval Kishore ¹ Pratap Singh ²	Centre of Glaciology, Wadia Institute of Himalayan Geology, Dehradun ¹ Deptt. of Genetics & Plant Breeding, Department of Chemistry, G.B. Pant University of Agriculture and Technology, Pantnagar ² Department of Geology, Punjab University, Chandigarh
22 8	Earth Sciences including Geology, Geomorphology, Geophysics & Glaciology	O	MORPHOMETRY OF DRAINAGE IN CONTEXT TO WATERSHEDS OF LESSER HIMALAYA, THALISAIN AREA (PAURI GARHWAL)	Tripti Jayal* D.D. Chauniyal	Department of Geography, H.N.B. Garhwal University, Srinagar Garhwal Department of Geography, H.N.B. Garhwal University, Srinagar Garhwal

229	Earth Sciences including Geology, Geomorphology, Geophysics & Glaciology	O	A COMPARATIVE ANALYSIS OF SELECTED DRAINAGE BASINS OF PINDER RIVER, UTTARAKHAND HIMALAYA	Vikram Sharma* B.P. Naithani	Department of Geography, H.N.B. Garhwal University, Srinagar Garhwal Department of Geography, H.N.B. Garhwal University, Srinagar Garhwal
230	Earth Sciences including Geology, Geomorphology, Geophysics & Glaciology	O	MANAGING THE SEASONAL WATER SCARCITY IN SMALL URBANIZED HILLSLOPE OF PAURI URBAN AREA IN LESSER HIMALAYA THROUGH ASSESSMENT OF SPRING FLOW	S. Tarafdar* K.Kumar	G.B. Pant Institute of Himalayan environment and Development, Garhwal Unit, Srinagar Garhwal G.B.Pant Institute of Himalayan Environment & Development, Kosi-Katarmal, Almora, Uttarakhand
231	Earth Sciences including Geology, Geomorphology, Geophysics & Glaciology	O	STUDY ON ECOLOGICAL PARAMETERS AND LANDSLIDE HAZARD ZONATION MAPPING USING REMOTE SENSING AND GIS TECHNIQUES: A CASE STUDY OF DANDA, RAJPUR, DEHRADUN	Preeti Semwal* Kusum Arunachalam	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun
232	Engineering Science And Technology	O	EMBEDDED SYSTEM DESIGN IMPLEMENTATION OF EDGE DETECTOR ALGORITHM FOR IMAGE SEGMENTATION USING FPGA	Parul Goyal* S.C. Gupta	Department of Electronics & Communication Engineering, Dev-Bhoomi Institute of Technology, Dehradun Department of Electronics & Communication Engineering, Dehradun Institute of Technology,

Dehradun

23 3	Engineering Science And Technology	O	SEISMIC BASE ISOLATION - A PROTECTIVE SYSTEM FOR MEDIUM RISE BUILDINGS IN INDIA	Govardhan* D.K.Paul	Indian Institute of Technology, Roorkee Department of Earthquake Engineering, Indian Institute of Technology, Roorkee
23 4	Engineering Science And Technology	O	SESMIC STRENGTHENING OF MASONRY SCHOOL BUILDINGS IN THE STATE OF UTTARAKHAND	Sachin B.Kadam* Yogendra Singh	Department of earthquake Engineering, Indian Institute of Technology, Roorkee Associate Professor, Department of Earthquake Engineering, Indian Institute of Technology, Roorkee
23 5	Engineering Science And Technology	O	ROLE OF GEOSYNTHETICS IN GEOTECHNICAL ENGINEERING	Bharat Kumar Agarwal* H.J.S. Prasad, Jyoti Prasad	Civil Engineering Deptt., College of Technology, GB Pant University of Agriculture & Technology, Pantnagar Civil Engineering Deptt., College of Technology, GB Pant University of Agriculture & Technology, Pantnagar

23 6	Engineering Science And Technology	O	POTENTIAL OF STARCH FOR PRODUCIND ELECTRICITY A NOBEL INVENTION FOR INDUSTRIAL SECTOR	Rakesh Biswas*	Graphic Era University, Dehradun
23 7	Engineering Science And Technology	P	AN ANALYSIS OF OVER- ROOFTOP MULTIPLE DIFFRACTIONS BY AN ARRAY OF BUILDINGS OF IRREGULAR HEIGHT AND SPACING	Yashu Shanker* S. K.Soni	G. B. Pant Engineering College, Pauri Garhwal G. B. Pant Engineering College, Pauri Garhwal
23 8	Engineering Science And Technology	O	DEVELOPMENT AND DESIGN OF CARBON NANOPARTICLES BASED IMMUNODIAGNOSTIC DEVICE FOR ON- SITE TESTING OF KARNAL BUNT DISEASE OF WHEAT	Mamta Metwal* Ajeet singh ¹ Manoj Singh ² Anil Kumar ²	Department of Biotechnology, G.B. Pant Engineering College, Ghurdauri, Pauri Garhwal, ¹ Department of Biotechnology, G.B. Pant Engineering College, Ghurdauri, Pauri Garhwal ² Department of Molecular Biology and Genetic Engineering, College of Basic Science and Humanities, G.B. Pant University of Agriculture & Technology, Pantnagar
23 9	Engineering Science And Technology	O	INTELLIGENT COUNTING SYSTEM FOR MALLS/ SHOPPING COMPLEX	Ayush Kumar Mittal* Ankit Bhatt, Ankit Bhardwaj, Ankit Kumar	Graphic Era University, Dehradun Graphic Era University, Dehradun
24 0	Engineering Science And Technology	P	AN AUTOMATED TRAFFIC CONGESTION CONTROL AND WARNING SYSTEM BASED ON WSN	Surender Singh Samant* Vijay Singh	Graphic Era University, Dehradun Graphic Era University, Dehradun

24 1	Engineering Science And Technology	O	DESIGN CRITERIA FOR LOW VOLUME ROADS OF UTTARAKHAND	Ankit Gupta* Praveen Kumar	Indian Institute of Technology, Roorkee Department of Earthquake Engineering, Indian Institute of Technology, Roorkee
24 2	Engineering Science And Technology	O	STUDY AND ANALYSIS OF IMAGE DE-NOISING BY DOUBLE DENSITY DWT FILTER	Rudra Pratap Singh Chauhan*	Uttaranchal Institute of Technology, Dehradun
24 3	Engineering Science And Technology	P	STUDY AND ANALYSIS OF WAVELET BASED IMAGE COMPRESSION THROUGH SUB-BAND CODING	Sanjay Singh*	Uttaranchal Institute of Technology, Dehradun
24 4	Engineering Science And Technology	O	SOLAR ENERGY GADGETS FOR RURAL HOUSEHOLD AND FARMS	Janki Joshi* Promila Sharma	G.B. Pant University of Agriculture & Technology, Pantnagar GB Pant University of Agriculture & Technology, Pantnagar
24 5	Engineering Science And Technology	O	NATURAL-FIBER REINFORCED POLYMER COMPOSITES: AN ALTERNATIVE TO PETROLEUM BASED COMPOSITES	Pramendra Kumar Bajpai* Inderdeep Singh, Jitendra Madaan	Indian Institute of Technology, Roorkee Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee
24 6	Engineering Science And Technology	O	LIAO ET AL'S PASSWORD AUTHENTICATION USING SMART CARD: AN ANALYTICAL STUDY	Anchit Bijalwan* Sandeep K. Sood	Uttarakhand Technical University, Dehradun Amritsar, Punjab
24 7	Engineering Science And Technology	O	POSTURAL DISCOMFORT OF FARM WORKERS IN UTTARAKHAND – A COMPARATIVE STUDY	Pragya Ojha* Seema Kwatra	Collage of Home Science , G.B. Pant University of Agriculture & Technology, Pantnagar Collage of Home Science , G.B. Pant University

					of Agriculture & Technology, Pantnagar, Uttarakhand
24 8	Engineering Science And Technology	O	SORPTION PARAMETERS OPTIMIZATION AND EQUILIBRIUM STUDIES: BIOSORPTION OF AS(III) FROM CONTAMINATED WATER ONTO LOW COST PALM BARK (PB) BIOMASS	Suantak Kamsonlian* Chandrajit Balomajumder, Shri Chand	Department of Chemical Engineering, Indian Institute of Technology, Roorkee Department of Chemical Engineering, Indian Institute of Technology, Roorkee
24 9	Environmental Science & Forestry	O	INTRODUCTION OF COFFEE UNDER SALIX PLANTATIONS FOR DEVELOPING SALIX BASED SILVI-HORTICULTURE SYSTEM IN TERAJ REGION OF UTTARAKHAND	Chandra Shekher Sanwal* B. C. Saini, Gurmukh Singh, Sunil Kumar, Manisha Rani, Sandhya Goswami	Indira Gandhi National Forest Academy, Dehradun G.B. Pant University of Agriculture & Technology, Pantnagar
25 0	Environmental Science & Forestry	O	A STUDY TO COMPARE EFFICACY OF ADSORBENTS FOR THE REMOVAL OF POLLUTANTS FROM SUGARMILL EFFLUENT	Charu Saxena* Sangeeta Madan	Department of Environmental Sciences, Kanya Gurukul Mahavidyalaya, Gurukul Kangri Vishwavidyalaya, Haridwar Gurukul Kangri Vishwavidyalaya, Haridwar
25 1	Environmental Science & Forestry	O	THE POTENTIAL ROLE OF CRA (COMMUNITY RISK ANALYSIS): - A CASE STUDY OF MCT UTTARAKHAND	Vedika Pant*	Department of Geography, DSB Campus, Kumaun University, Nainital

25 2	Environmental Science & Forestry	O	INFLUENCE OF TEMPERATURE AND PRETREATMENTS ON THE SEED GERMINATION OF <i>BUXUS WALLICHIANA</i> L. AN IMPORTANT SPECIES FOR THE WOODCRAFT INDUSTRY	Reena Saklani* Manisha Thapliyal, Veerababu Oruganti	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
25 3	Environmental Science & Forestry	O	A COMPARATIVE STUDY OF WATER QUALITY MONITORING OF HARIDWAR DISTRICT	Shweta Tyagi* Prashant Singh ¹ Rakesh Singh ² D.P. Uniyal ³ Bhavtosh Sharma ⁴	Department of Chemistry, DAV (P.G.) College, Dehradun ¹ Department of Chemistry, DAV (P.G.) College, Dehradun ² Department of Chemistry, DBS (P.G.) College, Dehradun ³ Uttarakhand State Council for Science and Technology, Dehradun ⁴ Uttarakhand Science Education and Research Centre, Dehradun
25 4	Environmental Science & Forestry	O	DIVERSITY OF RHIZOBIUM SYMBIONTS IN THE GARHWAL AND EASTERN NEPAL HIMALAYAN ECOSYSTEM	Peer Muzamil Shams* S. P. Chaukiyal, Nirmal, T. C. Pokhriyal	Forest Research Institute, Dehradun Botany Division, Forest Research Institute, Dehradun
25 5	Environmental Science & Forestry	O	TO COMPARE THE GROWTH PERFORMANCE OF SEEDLING AND CUTTINGS RAISED PLANT OF <i>PONGAMIA PINNATA</i> (LINN.) IN THE NURSERY	Manoj Kumar * S. P. Chaukiyal	Forest Research Institute, Dehradun Botany Division, Forest Research Institute, Dehradun

25 6	Environmental Science & Forestry	P	GROWTH AND BIOMASS STUDIES IN SELECTED ELITE CLONES OF DALBERGIA SISSOO IN THE NURSERY	Ajaz Bhat * S.P. Chaukiyal, S.Nautiyal, Sajad Razvi, Nirmal	Botany Division, Forest Research Institute, Dehradun Botany Division, Forest Research Institute, Dehradun
25 7	Environmental Science & Forestry	O	EFFECT OF DONOR AGE AND GENOTYPE ON COPPICING AND ROOTING ABILITY IN DALBERGIA SISSOO (ROXB.)	Meena Bakshi*	Forest Research Institute, Dehradun
25 8	Environmental Science & Forestry	P	SUSTAINABLE PRODUCTION OF PLANTING STOCK FOR CONSERVATION OF RINGAL IN UTTARAKHAND HILLS	Sajad Razvi* Meena Bakshi	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
25 9	Environmental Science & Forestry	P	RESTORATION ECOLOGY- A BETTER PROMISING EFFORT FOR ECOSYSTEM AND SPECIES CONSERVATION	Fouzia Ishaq* Amir Khan	Department of Zoology and Environmental Science, Gurukula Kangri University, Haridwar Department of Biochemistry, Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences & Research Balawala, Dehradun
26 0	Environmental Science & Forestry	O	EFFICACY OF THREE PLANT EXTRACTS ON THE OVIPOSITION DETERRENT AND ADULT EMERGENCE ACTIVITY OF <i>PLECOPTERA REFLEXA</i> GUENEE A MAJOR PEST OF <i>DALBERGIA SISSOO ROXB</i>	Shamila Kalia*	Forest Research Institute, Dehradun

26 1	Environmental Science & Forestry	O	QUANTATIVE ANALYSIS AND REGENERATION STATUS OF TEMPERATE FOREST OF GARHWAL HIMALAYA	Prerna Pokhriyal* G.K. Dhingra ¹ Ramdas Arya ¹ Sanjay Kumar ¹ N.P. Todaria ²	Department of Botany, R.C.U. Govt. PG College, Uttarkashi ¹ Department of Botany, R.C.U. Govt. PG College, Uttarkashi ² H.N.B. Garhwal University, Srinagar, Pauri Garhwal
26 2	Environmental Science & Forestry	O	CINANMOMUM TAMALA FR. NEES & EBERM – A POTENTIAL AGROFORESTRY TREE SPECIES FOR SMALL HOLDER FARMERS IN CENTRAL HIMALAYA (UTTARAKHAND)	Narayan Singh* J. S. Butola ¹ A. Kathait ¹ AK. Bhandari ¹ R. C. Sundriyal ¹ L. S. Lodhiyal ²	Herbal Research & Development Institute, Gopeshwar, Chamoli ¹ Herbal Research & Development Institute, Gopeshwar, Chamoli ² Department of Forestry & Environmental Science, Kumaun University, Nainital
26 3	Environmental Science & Forestry	O	MACRO-PROPAGATION OF AN IMPORTANT FLOWERING TREE RHODODENDRON ARBOREUM	Peerzada Ishtiyak Ahmad* Lokho Puni	Forest Research Institute, Dehradun Forest Research Institute, Dehradun
26 4	Environmental Science & Forestry	O	WATER QUALITY ASSESSMENT OF SURFACE AND GROUNDWATER QUALITY OF HARIDWAR DISTRICT, UTTARAKHAND	Kanchan Deoli Bahukhandi* S.K. Bartarya	University of Petroleum & Energy Studies, Dehradun Wadia Institute of Himalayan Geology, Dehradun
26 5	Environmental Science & Forestry	O	SEED GERMINATION ECO- PHYSIOLOGY OF HIPPOPHAE SALICIFOLIA THREE PROVENANCES OF UTTARAKHAND	Vidya Rattan* Anita Tomar	Forest Research Institute, Dehradun Forest Research Institute,

					Dehradun
26 6	Environmental Science & Forestry	O	ASSESSMENT OF BANJ OAK (<i>Q. LEUCOTRICHOPHORA A. CAMUS</i>) FORESTS AND THEIR CONSERVATION STATUS IN UTTARAKHAND	Gajendra Singh* G.S. Rawat	Wildlife Institute of India, Dehradun ICIMOD, Kathmandu
26 7	Environmental Science & Forestry	P	A CONCEPTUAL AND REALISTIC FRAMEWORK TO ASSESS LIVELIHOOD VULNERABILITY	Shashidhar Kumar Jha* Animesh Kanaujia Azam Khan	H.N.B Garhwal University, Srinagar H.N.B Garhwal University, Srinagar
26 8	Environmental Science & Forestry	O	ECOLOGICAL AND CONSERVATION SIGNIFICANCE OF FIVE FOREST COMMUNITIES IN NANDA DEVI BIOSPHERE RESERVE, WEST HIMALAYA, INDIA	H.C. Joshi* S.S. Samant	Uttarakhand Open University, Haldwani, Nainital G.B. Pant Institute of Himalayan Environment and Development, Himachal Unit, Mohal-Kullu, Himachal Pradesh
26 9	Environmental Science & Forestry	O	NITROGEN ASSIMILATION STUDY IN LEAVES OF SOME PATHOLOGICALLY TESTED CLONES OF <i>DALBERGIA SISSOO</i>	Pallavi Bhatia* S.P. Chaukiyal, Nirmal	Forest Research Institute, Dehradun Botany Division, Forest Research Institute, Dehradun
27 0	Environmental Science & Forestry	O	PERIPHYTON AS INDICATORS OF WATER QUALITY IN DOON VALLEY STREAMS	Deepali Rana* S. K. Gupta	Department of Zoology, D.B.S. (PG) College, Dehradun Department of Zoology, D.B.S. (PG) College, Dehradun

27 1	Environmental Science & Forestry	P	GROWTH INDICES OF <i>EUPTEROTE UNDATA</i> ON DIFFERENT TEST PLANTS	Rinki Ghosh* Shamila Kalia	Forest Research Institute, Dehradun Botany Division, Forest Research Institute, Dehradun
27 2	Environmental Science & Forestry	O	STATUS OF WATER QUALITY IN BHAGWANPUR INDUSTRIAL AREA, ROORKEE	Parameswara Rao Potti* Vimal Chandra Srivastava Indra Deo Mall	Indian Institute of Technology Roorkee, Roorkee Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee
27 3	Environmental Science & Forestry	O	VEGETATIVE PROPAGATION OF <i>DIPLOKNEA</i> <i>BUTYRACEA</i> : AN AID TO ITS CONSERVATION AND LIVELIHOOD SUPPORT	Dinesh Kumar* Abid Rasool, Kshitij Malhotra, Isha Rana	Silviculture Division, Forest Research Institute, Dehradun Silviculture Division, Forest Research Institute, Dehradun
27 4	Environmental Science & Forestry	O	VEGETATION ANALYSIS, PHYSIOLOGICAL AND MORPHOLOGICAL TRAITS AND CARBON ACCUMULATION IN SAL FOREST OF LACCHIWALA FOREST RANGE IN RELATION TO SOIL PROPERTIES	Swanti Sharma* Kusum Arunachalam	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun
27 5	Environmental Science & Forestry	P	URBAN LAND USE AND GREEN SPACES CHANGES IN DEHRADUN CITY	Neelam Singh Maurya* Dinesh Pratap	Department of Geography, D.A.V (P.G.) College, Dehradun Department of Geography, D.A.V (P.G.) College, Dehradun

27 6	Environmental Science & Forestry	O	WHAT MOTIVATES SUCCESSFUL FOREST OUTCOMES IN COMMUNITY BASED FOREST MANAGEMENT: EXPERIENCES IN VAN PANCHAYATS OF UTTARAKHAND STATE, INDIA	Prakash Singh*	G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora
				R. C. Sundriyal ¹	¹ Herbal Research and Development Institute, Gopeshwar, Chamoli
				G.C.S. Negi ²	² G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora
				L. S. Lodhiyal ³	³ Department of Forestry and Environmental Sciences, Kumaon University, D.S.B. Campus, Nainital
27 7	Environmental Science & Forestry	O	POPULATION STRUCTURE AND NERATION BEHAVIOR OF FOREST COMMUNITIES IN LAST TWO DECADES IN NANDA DEVI BIOSPHERE RESERVE, WESTERN HIMALAYA	Balwant Rawat*	G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora
				R.S. Rawal	G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora
27 8	Environmental Science & Forestry	O	BIOSORPTION OF HEAVY METAL USING SACCHAROMYCES CEREVISIAE	Megha Verma*	Department of Agronomy, G.B. Pant University of Agriculture and Technology, Pantnagar
				J.P.N. Rai	Department of Agronomy, G.B. Pant University of Agriculture and Technology,

279	Environmental Science & Forestry	O	CLIMATE CHANGE AT UTTARAKHAND STATE OF INDIA; IT'S A MAINLY HILLY TERRAIN" (MAJOR LAND SLIDES IN UTTARAKHAND DUE TO CONSTRUCTIONS OF HUGE LACKS AND ROAD CONSTRUCTION)	Virendra Kumar Verma* M.P.S. Parmar, Shanti Ramola Parmar	Sankalp Samajik Sanstha, Chauhan Bhawan, Gyanshu, Uttarkashi Sankalp Samajik Sanstha, Chauhan Bhawan, Gyanshu, Uttarkashi
280	Environmental Science & Forestry	O	POPULATION STRUCTURE, PHENOLOGY AND REGENERATION POTENTIAL OF TWO SPECIES OF QUERCUS IN TIMBERLINE FOREST, WESTERN HIMALAYA, INDIA	Vinod K. Bisht* C.P. Kuniyal ¹ R. C. Sundriyal ¹ P. Prasad ² B.P. Nautiyal ³	Herbal Research & Development Institute, Gopeshwar ¹ Herbal Research & Development Institute, Gopeshwar ² High Altitude Plant Physiology Research Centre, H.N.B. Garhwal (Central) University, Srinagar ³ Department of Horticulture, Medicinal and Aromatic Plants, School of Environmental Sciences and Natural Resource Management, Manipur University, Aizawl

28 1	Environmental Science & Forestry	O	ERGONOMIC ANALYSIS/ EVALUATION OF JOBS OF GARDENERS IN REFERENCE TO THEIR PHYSICAL QUALIFICATION	Rakhi Saxena* Promila Sharma	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
28 2	Environmental Science & Forestry	O	STUDY OF MACROINVERTEBRATES AS AN INDICATOR SPECIES OF SONG RIVER, DEHRADUN	Bhawna Pundir* Archana Sharma	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun
28 3	Environmental Science & Forestry	O	LEAF LITTER DYNAMICS IN SAL FOREST OF SHIWALIK RANGE OF DEHRADUN	Ayantika Chatterjee* Kusum Arunachalam	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun
28 4	Environmental Science & Forestry	O	ROLE OF VAN PANCHYAT IN BIODIVERSITY CONSERVATION: A CASE STUDY FROM PAURI DISTRICT	Poonam Negi* Kusum Arunachalam	School of Environment & Natural Resources, Doon University, Dehradun School of Environment & Natural Resources, Doon University, Dehradun

28 5	Home Science Including Textile, Food, Nutrition & Child Development	O	CULTIVATION AND PROMOTION OF MULTIPURPOSE CROPS, (AMARANTHUS AND BUCKWHEAT) FOR SOCIO- ECONOMIC DEVELOPMENT OF ST COMMUNITY OF KAPKOTE BLOCK IN DISTRICT BAGESHWAR OF UTTARAKHAND STATE	Deepak Kholiya* Prakash Chandra Joshi	Himalayan Organisation for Protecting Environment (HOPE), Pilkholi, Ranikhet, Almora Himalayan Organisation for Protecting Environment (HOPE), Pilkholi, Ranikhet, Almora
28 6	Home Science Including Textile, Food, Nutrition & Child Development	O	INFORMATION COMMUNICATION TECHNOLOGIES IN IMPARTING EDUCATION ON IRON DEFICIENCY ANAEMIA (IDA) AMONG THE RURAL WOMEN: A STUDY IN UTTARAKHAND	Arpita Sharma* Samshul Hasan	Department. of Agricultural Communication, College of Agriculture, G. B. Pant University of Agriculture & Technology, Pantnagar Dept. of Agricultural Communication, College of Agriculture, G. B. Pant University of Agriculture & Technology, Pantnagar
28 7	Home Science Including Textile, Food, Nutrition & Child Development	O	EFFECT OF PROCESSING TECHNIQUES ON NUTRITIONAL CHARACTERISTICS OF OAT (AVENA SATIVA) GRAINS AND FORMULATED WEANING MIXES	Neha Tiwari* Pratima Awasthi	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar

28 8	Home Science Including Textile, Food, Nutrition & Child Development	P	EFFECT OF STORAGE ON QUALITY CHARACTERISTICS OF OAT (<i>Avena sativa</i>) INCORPORATED WEANING MIXES	Hemlata Pandey* Pratima Awasthi	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
28 9	Home Science Including Textile, Food, Nutrition & Child Development	P	DEBITTERING OF FENUGREEK SEEDS (<i>TRIGONELLA FOENUM GRAECUM</i>)	Rashmi Limbu* Sarita Srivastava	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
29 0	Home Science Including Textile, Food, Nutrition & Child Development	P	MODULE DEVELOPMENT ON BREAST FEEDING AND COMPLEMENTARY FEEDING	Priyanka Singhal* Rita Singh Raghuvanshi	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
29 1	Home Science Including Textile, Food, Nutrition & Child Development	P	EFFECTIVENESS OF EXPLICIT WARNING INFORMATION FOR CHILD CARE PRODUCTS	Neha Tripathi* Seema Kwatra	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology,

Pantnagar

29 2	Home Science Including Textile, Food, Nutrition & Child Development	O	DEVELOPMENT OF ALOE VERA INCORPORATED JUICE BLEND AND ITS SUITABILITY FOR HYPERTENSIVE PATIENTS	Vidya Kumari* Pratima Awasthi	S.V.G.P.G. College, Lohaghat, Champawat College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand
29 3	Home Science Including Textile, Food, Nutrition & Child Development	O	WORK-RELATED MUSCULOSKELETAL DISORDERS AMONG WORKERS ENGAGED IN MANUAL HANDLING AND LIFTING TASKS	Hema Bhatt* Promila Sharma	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
29 4	Home Science Including Textile, Food, Nutrition & Child Development	P	GERMINATED FENUGREEK SEEDS AS A NUTRACEUTICAL FOR DIABETICS	Sujata Sharma* Pratima Awasthi	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar

29 5	Home Science Including Textile, Food, Nutrition & Child Development	O	IMPACT OF NUTRITION GARDEN ON NUTRIENT CONSUMPTION OF THE PEOPLE OF THREE VILLAGES OF UTTARAKHAND	Rajkumari* Pushpa Shukla, Rashmi Limbu	Deptt. of Foods and Nutrition, College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar Deptt. of Foods and Nutrition, College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
29 6	Home Science Including Textile, Food, Nutrition & Child Development	P	EVALUATION OF FINGER MILLET INCORPORATED NOODLES FOR NUTRITIVE VALUE AND GLYCEMIC INDEX	Kamini Shukla* Sarita Srivastava	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
29 7	Home Science Including Textile, Food, Nutrition & Child Development	O	ACCIDENTS ASSOCIATED WITH USE OF INDIAN TOILET AMONG OLD AGE PEOPLE: A COMPREHENSIVE STUDY	Nirmal Kaur* Promila Sharma	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar

298	Home Science Including Textile, Food, Nutrition & Child Development	P	A COMPARATIVE STUDY ON POSTURAL DISCOMFORT OF FARM WORKERS IN RICE TRANSPLANTING: AN ERGONOMIC APPROACH	Pragya Ojha* Seema Kwatra	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
299	Home Science Including Textile, Food, Nutrition & Child Development	O	GREEN GRAM HUSK INCORPORATED HIGH FIBER FOOD PRODUCTS AND THEIR EVALUATION FOR SENSORY PARAMETERS	Preeti Bora* Kalpana Kulshrestha	Deptt. of Foods and Nutrition, Uttarakhand Open University, Haldwani Deptt. of Foods and Nutrition, College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
300	Home Science Including Textile, Food, Nutrition & Child Development	O	COMPARATIVE STUDIES ON VARIOUS COCOON STIFLING METHODS	D.C. Joshi*	Demonstration cum Technical Service Centre, Central Silk Board, Premnagar, Dehradun
301	Home Science Including Textile, Food, Nutrition & Child Development	P	KEEPING TRADITIONS ALIVE IN ADVANCING SOCIETY	Anuradha Arya* Anita Rani	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand

30 2	Home Science Including Textile, Food, Nutrition & Child Development	O	DESIGNING OF PROTECTIVE CLOTHING AND ITS APPRAISAL FROM PESTICIDE APPLICATORS OF TARAI REGION OF UTTARKHAND	Amrita Singh* Manisha Gahlot	G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
30 3	Home Science Including Textile, Food, Nutrition & Child Development	P	CUSTOMIZATION OF FOLK ART FOR WIDENING ITS SCOPE FOR APPLICATION ON TEXTILES	Anita Rani* Elasha M.Sangama	G. B. Pant University of Agriculture & Technology, Pantnagar College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar
30 4	Home Science Including Textile, Food, Nutrition & Child Development	P	ONION PEELS: AN AGRO WASTE FOR MULBERRY SILK PRINTING	Swati Pant* Amarpreet Kaur, Manisha Gahlot	G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand
30 5	Home Science Including Textile, Food, Nutrition & Child Development	O	SOCIAL AND EMOTIONAL MATURITY LEVEL OF SENIOR SCHOOL ADOLESCENTS OF PANTNAGAR	Kusha Pant* Ritu Singh ¹ Vineeta Nagarkoti ² Poonam ²	House No C-25, Judge Farm, Halwani, Nainital ¹ G. B. Pant University of Agriculture & Technology, Pantnagar ² CCS HAU, Hisar

306	Home Science Including Textile, Food, Nutrition & Child Development	O	HEALTH ISSUES OF UTTARAKHAND HILL FARM WOMEN AND PHYSICAL DEVELOPMENT OF CHILDREN	Vineeta Nagarkoti* Suman Prasad Maurya ¹ Kusha Pant ² Poonam ²	G. B. Pant University of Agriculture & Technology, Pantnagar ¹ NDUAT, Faizabad ² CCS HAU, Hisar
307	Home Science Including Textile, Food, Nutrition & Child Development	P	IMPACT OF NUTRITION EDUCATION IN IMPROVING THE NUTRITIONAL AWARENESS AMONG ADOLESCENT BOYS OF UTTARAKHAND	Govind Ballabh Bhatt* Rita S. Raghuvanshi, Kalpana Kulshrestha	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Foods & Nutrition, G. B. Pant University of Agriculture & Technology, Pantnagar
308	Home Science Including Textile, Food, Nutrition & Child Development	O	SESBANIA ACULEATA (DHAINCHA) FIBRES: AN APPROACH TOWARDS SUSTAINABILITY	Monika Negi* Anita Rani	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Clothing and Textiles, G. B. Pant University of Agriculture & Technology, Pantnagar
309	Home Science Including Textile, Food, Nutrition & Child Development	O	ALLURE OF AIPAN DESIGNS: ITS JOURNEY FROM FLOOR TO FABRIC	Anupriya Singh* Manisha Gahlot	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Clothing and Textiles, G. B. Pant University of Agriculture & Technology, Pantnagar

310	Home Science Including Textile, Food, Nutrition & Child Development	O	EFFECT OF CLEANSING AGENTS ON SILK FABRIC	Yogita Pandey* Sakshi	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Clothing and Textiles, G. B. Pant University of Agriculture & Technology, Pantnagar
311	Home Science Including Textile, Food, Nutrition & Child Development	O	STUDY OF QUALITY CHARACTERISTICS OF BASMATI RICE (VAR. PUSA BASMATI-1) GROWN USING DIFFERENT MODES OF FARMING	Bhawna Chugh* Mamta Arora Gurmukh Singh	Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar, Uttarakhand
312	Home Science Including Textile, Food, Nutrition & Child Development	O	A CURATIVE AND PREVENTIVE APPROACH FOR VULNERABLE POPULATION OF UTTARAKHAND AGAINST ANAEMIA AND OSTEOARTHRITIS UTILIZING LOCALLY AVAILABLE RESOURCES	Meenakshi Pant* Jyoti Tewari	H.N.B. Garhwal University, Srinagar Garhwal Department of Home Science, School of Science, H.N.B. Garhwal University, Srinagar Garhwal
313	Home Science Including Textile, Food, Nutrition & Child Development	O	MILLET : A SOLUTION TO NUTRITION SECCRITY AND HIDDEN HUNGER IN UTTARAKHAND STATE	Amresh Sirohi*	Krishi Vigyan Kendra, Matela (Kosi), Almora

314	Home Science Including Textile, Food, Nutrition & Child Development	P	PHYSICAL CHARACTERISTICS AND COOKING QUALITY OF SELECTED IMPROVED VARIETIES OF COWPEA (<i>Vigna unguiculata</i>)	Bhavana* Archana Kushwaha	Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar
315	Home Science Including Textile, Food, Nutrition & Child Development	P	A NEW HORIZON FOR KUMAONI FOLK ART OF UTTARAKHAND IN READY TO USE BORDERS	Shalini Pant* Manisha Gahlot	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Clothing and Textiles, G. B. Pant University of Agriculture & Technology, Pantnagar
316	Home Science Including Textile, Food, Nutrition & Child Development	O	RELATIONSHIP BETWEEN FAMILY TYPE AND SELF CONCEPT OF ADOLESCENTS	Hemlata Chand* Ritu Singh	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Human Development & Family Studies, G. B. Pant University of Agriculture & Technology, Pantnagar
317	Home Science Including Textile, Food, Nutrition & Child Development	O	AWARENESS ASSESSMENT REGARDING ECO-DESIGN TECHNOLOGY OF PRODUCT AMONG HOUSEWIVES OF PANTNAGAR, UDHAMSINGHNAGAR, UTTARAKHAND	Kumkum Pandey* Aditi Vats	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Family Resource Management, G. B. Pant University of Agriculture & Technology, Pantnagar

318	Home Science Including Textile, Food, Nutrition & Child Development	O	NUTRITIONAL STATUS OF SCHOOL AGED CHILDREN IN GOVERNMENT SCHOOLS OF UTTARAKHAND	Archana Kushwaha* Rita S. Raghuvanshi, Ritu Singh Neetu Dobhal	Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Food Science & Technology, G. B. Pant University of Agriculture & Technology, Pantnagar
319	Home Science Including Textile, Food, Nutrition & Child Development	O	ECO-FRIENDLY DYEING OF SILK WITH NATURAL DYE - PATHWAY TO A SUSTAINABLE FUTURE	Tripti Basant* Shahnaz Jahan	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Clothing and Textiles, G. B. Pant University of Agriculture & Technology, Pantnagar
320	Home Science Including Textile, Food, Nutrition & Child Development	O	FACTORS AFFECTING DECISION MAKING PATTERN OF CONSUMERS FOR FAST MOVING CONSUMER GOODS (FMCG)	Kavita Narwal* Aditi Vats	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Family Resource Management, G. B. Pant University of Agriculture & Technology, Pantnagar
321	Material Science and Nano Technology	O	STUDY OF (BaTiO ₃ :Zr)/PS POLYMER NANO COMPOSITES	Garima Bisht* Diwakar Padalia, U.C. Johri	College of Home Science, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Physics, G. B. Pant University

					of Agriculture & Technology, Pantnagar
32 2	Material Science and Nano Technology	O	RAMAN INVESTIGATION OF NANOSTRUCTURED MAGNETITE	Geeta Rana* U.C. Johri	G. B. Pant University of Agriculture & Technology, Pantnagar Department of Physics, G. B. Pant University of Agriculture & Technology, Pantnagar
32 3	Material Science and Nano Technology	P	COLOSSAL MAGNETORESISTANCE PEROVSKITE MANGANITES : A NEW APPROACH	Puneet Negi*	G. B. Pant University of Agriculture & Technology, Pantnagar
32 4	Material Science and Nano Technology	O	SYNTHESIS AND CHARACTERIZATION OF Ni-P-AL ₂ O ₃ NANOCOMPOSITE COATINGS ON MILD STEEL AND THEIR FURTHER HEAT TREATMENT	Preeti Makkar* R.C. Agarwala, Vijaya Agarwala	Indian Institute of Technology Roorkee, Roorkee Department of Metallurgical and Materials Engineering, Indian Institute of Technology Roorkee, Roorkee
32 5	Mathematics, Statistics & Computer Science	O	AN OPTIMAL REPLENISHMENT POLICY FOR NON-INSTANTANEOUS DETERIORATING ITEMS WITH STOCK-DEPENDENT DEMAND AND VARIABLE HOLDING COST	Ankit Prakash Tyagi* R. K. Pandey ¹ S. R. Singh ²	D. B. S. (PG) College, Dehradun ¹ D. B. S. (PG) College, Dehradun ² D. N. (PG) College, Meerut
32 6	Mathematics, Statistics & Computer Science	O	COINCIDENCE AND FIXED POINTS FOR MULTI-VALUED MAPPINGS UNDER GENERALIZED CONTRACTIVE CONDITION	Ajay Gairola*	Department of Mathematics, D. S. B. Campus, Kumaun University, Nainital

32 7	Mathematics, Statistics & Computer Science	O	COMMON FIXED POINTS UNDER SOME WEAKER CONTINUITY CONDITIONS	R. K. Bisht*	Department of Mathematics, D. S. B. Campus, Kumaun University, Nainital
32 8	Mathematics, Statistics & Computer Science	O	A GRAPHICAL METHOD TO REDUCE TIME COMPLEXITY OF COMPLEX PROJECTS BASED ON DESIGN STRUCTURE MATRIX	Sachin Kumar Saxena* Garima Krishna	Department of Computer Science and Engineering, Dehradun Institute of Teechnology, Dehradun Department of Computer Science and Engineering, Dehradun Institute of Teechnology, Dehradun
32 9	Mathematics, Statistics & Computer Science	O	HEAT AND MASS TRANSFER ALONG AN ISOTHERMAL VERTICAL POROUS PLATE IN THE PRESENCE OF HEAT SINK	Bhasker Chandra* Manoj Kumar	G. B. Pant University of Agriculture & Technology, Pantnagar G. B. Pant University of Agriculture & Technology, Pantnagar
33 0	Mathematics, Statistics & Computer Science	O	A SIMPLE FUZZY TIME SERIES FORECASTING METHOD FOR FORECASTING THE FUTURE BASED ON HISTORICAL OBSERVATIONS	Bhagawati Prasad Joshi* Sanjay Kumar	Department of Mathematics, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Mathematics, G. B. Pant University of Agriculture & Technology, Pantnagar
33 1	Mathematics, Statistics & Computer Science	O	RELIABILITY ANALYSIS OF A COMPLEX SYSTEM WITH THREE POSSIBILITIES IN REPAIR WITH THE APPLICATION OF COPULA	Beena Nailwal* S.B. Singh	Department of Mathematics, G. B. Pant University of Agriculture & Technology, Pantnagar Department of Mathematics, G. B. Pant University of Agriculture &

					Technology, Pantnagar
33 2	Mathematics, Statistics & Computer Science	O	DETERMINATION OF SIMILARITY SCORE BETWEEN TWO TEXTS AND ITS APPLICATION IN TEXT CATEGORIZATION	Hemlata Pande* H. S. Dhami	Dept. of Mathematics, S. S. J. Campus, Kumaun University, Almora Dept. of Mathematics, S. S. J. Campus, Kumaun University, Almora
33 3	Mathematics, Statistics & Computer Science	O	ON A CONFORMAL TRANSFORMATION OF A TACHIBANA SPACE	Sunil Singh*	Department of Mathematics, H.N.B. Garhwal University, Campus Badshahithaul, Tehri Garhwal
33 4	Mathematics, Statistics & Computer Science	O	AN ARTIFICIAL NEURAL- NETWORK-BASED APPROACH TO APPLE QUALITY DETECTION	Ashutosh Kumar Bhatt* G.P. Saroha ¹ Richa Singh ²	Department of Computer Science, Birla Institute of Applied Sciences, Bhimtal, Nainital ¹ Department of Information Technology, Dehradun ² Junior Research Fellow DST Sponsered Project
33 5	Mathematics, Statistics & Computer Science	O	NP-HARD PROBLEM AND ITS SOLUTION BY USING LEARNING TECHNIQUES OF ARTIFICIAL INTELLIGENCE	Garima Krishna* Pradeep Kumar	College of Engineering Roorkee (CORE), Roorkee Central Building Research Institute,

(CBRI), Roorkee

33 6	Mathematics, Statistics & Computer Science	O	STUDY OF SOLAR ACTIVITY FEATURES AND THEIR EFFECT ON RAINFALL USING SOFT COMPUTING TECHNIQUES	Deepa Bisht*	Department of Mathematics, D.S.B. Campus, Kumaun University, Nainital, Uttarakhand
33 7	Mathematics, Statistics & Computer Science	O	A COMPARATIVE STUDY OF COMMUTATIVITY AND ITS WEAKER FORMS	Jay Singh*	Department of Mathematics, D.S.B. Campus, Kumaun University, Nainital, Uttarakhand
33 8	Mathematics, Statistics & Computer Science	O	A COMPARATIVE STUDY OF STERILIZATION CASES IN PAURI GARHWAL	Pankaj Bahuguna* O.K. Belwal	H.N.B. Garhwal University, Srinagar Garhwal, Department of Statistics, H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand
33 9	Mathematics, Statistics & Computer Science	O	MORPHOLOGICAL ANALYSIS THROUGH A METRIC	R.K.Bisht*	Amrapali Institute of Management & Computer Application, Haldwani
34 0	Mathematics, Statistics & Computer Science	P	EXPANSION TYPE MAPPINGS IN FUZZY METRIC SPACES	Sandeep Bhatt* R. C. Dimri	H.N.B. Garhwal University, Srinagar Garhwal H.N.B. Garhwal University, Srinagar Garhwal
34 1	Mathematics, Statistics & Computer Science	P	A COMMON FIXED POINT THEOREM FOR WEAKLY COMPATIBLE MAPS IN COMPLEX VALUED METRIC SPACES	Shurti Chaukiyal* R. C. Dimri	H.N.B. Garhwal University, Srinagar Garhwal H.N.B. Garhwal University, Srinagar Garhwal

34 2	Mathematics, Statistics & Computer Science	O	CONHARMONIC CURVATURE TENSOR ON (k, μ) MANIFOLD	S. K. Chanyal* J. Upreti	Department of Mathematics, D.S.B. Campus, Kumaun University, Nainital Department of Mathematics, S.S.J. Campus, Kumaun University, Nainital
34 3	Mathematics, Statistics & Computer Science	P	TRANSIENT STATE ANALYSIS OF THE M/M/1/K QUEUE MODEL	Pawan Tamta* H.S. Dhami	Department of Mathematics, S.S.J. Campus, Kumaun University, Nainital Department of Mathematics, S.S.J. Campus, Kumaun University, Nainital
34 4	Mathematics, Statistics & Computer Science	P	WEB-BASED DATABASE FOR RELEASED VARIETIES FOR NORTH-WESTERN HIMALAYAS	Mukesh Kumar* K.K.S. Bisht	Vivekananda Parvtiya Krishi Anusandhan Sansthan, Almora Vivekananda Parvtiya Krishi Anusandhan Sansthan, Almora
34 5	Mathematics, Statistics & Computer Science	O	A SIMPLE STEMMING ALGORITHM	B. P. Pande* H. S. Dhami	Department of Mathematics, S.S.J. Campus, Kumaun University, Nainital Department of Mathematics, S.S.J. Campus, Kumaun University, Nainital
34 6	Mathematics, Statistics & Computer Science	O	THE DAILY MOBILITY OF DEHRADUN POPULATION	Nitin Kumar Kamboj* O. K. Belwal	H.N.B. Garhwal University, Srinagar Garhwal Department of Statistics, H.N.B. Garhwal

					University, Srinagar Garhwal
34 7	Mathematics, Statistics & Computer Science	O	SOME NEW RESULTS ON COMMON FIXED POINTS IN FUZZY METRIC SPACE	S. Padaliya* Achin Jain	S.G.R.R. (P.G.) College, Dehradun, Uttarakhand S.G.R.R. (P.G.) College, Dehradun
34 8	Mathematics, Statistics & Computer Science	O	AN ORDER-LEVEL LOT-SIZE MODEL FOR DETERIORATING ITEMS FOR TWO STORAGE FACILITIES WHEN DEMAND IS EXPONENTIALLY INCREASING	Abhinav Goel* R.K. Pandey ¹ S.R. Singh ²	D.B.S. (P.G.) College, Dehradun, Uttarakhand Department of of Math, D.B.S. (P.G.) College, Dehradun Department of of Math, D.N.College, Meerut
34 9	Mathematics, Statistics & Computer Science	O	MODELING AND ANALYSIS OF A SUPPLY CHAIN INVENTORY MODEL WITH SELLING PRICE DEPENDENT DEMAND AND VARIABLE RATE OF DETERIORATION	Sachin Gupta* R.K. Pandey ¹ S.R. Singh ²	D.B.S. (P.G.) College, Dehradun Department of of Math, D.B.S. (P.G.) College, Dehradun Department of of Math, D.N.College, Meerut

350	Medical Science Including Pharmaceutical Science	P	PREPARATION AND EVALUATION OF SUSTAINED RELEASED TABLET OF TOLPERISONE HYDROCHLORIDE	Tulsi Bisht* Kumud Upadhyaya ¹ Vinod Rana ¹ Prateek Gupta ² Ritu Bharti ³	Gyani Inder Singh Institute of Professional Studies (GISIPS), Dehradun ¹ Gyani Inder Singh Institute of Professional Studies (GISIPS), Dehradun ² Themis Medicare, Haridwar ³ RVCP, Janshi
351	Medical Science Including Pharmaceutical Science	P	PREPARATION AND EVALUATION OF 3-LAYERED MATRIX TABLET OF DICLOFENAC	Kamalesh Upreti* Kumud Upadhyaya Tulsi Bisht	Gyani Inder Singh Institute of Professional Studies (GISIPS), Dehradun Gyani Inder Singh Institute of Professional Studies (GISIPS), Dehradun
352	Medical Science Including Pharmaceutical Science	P	DEVELOPMENT AND EVALUATION OF MUCOADHESIVE MICROSPHERES OF GLIBENCLAMIDE	Ritu Bharti* Yatish Bhaskar ¹ Tulsi Bisht ² Prateek Gupta ³	104/3, Ballupur Chowk, Dehradun ¹ UPRUVNL, Jhansi ² GISIPS, Dehradun ³ Themis, Haridwar
353	Medical Science Including Pharmaceutical Science	P	DESIGN AND DEVELOPMENT OF ANTI-HIV (ANTIVIRAL) LOADED MICROPARTICULATED_BIO ADHESIVE_VAGINAL TABLET	Asmita Bhardwaj* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun
354	Medical Science Including Pharmaceutical Science	P	DESIGN AND DEVELOPMENT OF ANTI-HIV BIOADHESIVE VAGINAL TABLETS: PHYSIOCHEMICAL CHARACTERIZATION AND in-vitro EVALUATION	Shivangi Verma* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun

35 5	Medical Science Including Pharmaceutica l Science	P	PROCESS VALIDATION OF AMLODIPINE BESILATE TABLETS	Vivek Baloni* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun
35 6	Medical Science Including Pharmaceutica l Science	P	DESIGN AND DEVELOPMENT OF FAST DISSOLVING CELECOXIB TABLET BY SOLID DISPERSION AND CAMPBOR SUBLIMATION METHOD	Ayash Farooq* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun
35 7	Medical Science Including Pharmaceutica l Science	O	ANTI-INFLAMMATORY PROPERTIES OF SWERTIA CHIRAYTA AND GLORIOSA SUPERBA	Abhishek Mathur* Archana Prakash ¹ Virender K. Dua ² Gbks Prasad ³	Dept. of Biotechnology, Dev Bhoomi Group of Institutions (DBGI), Dehradun ¹ Dept. of Biochemistry, HIHT University, Jolly Grant, Dehradun ² National Institute of Malaria Research (NIMR), BHEL, Hardwar ³ School of Studies, Biochemistry, Jiwaji University, Gwalior, Madhya Pradesh
35 8	Medical Science Including Pharmaceutica l Science	P	FORMULATION, PHYSIOCHEMICAL CHARACTERIZATION AND <i>IN-VITRO</i> EVALUATION OF ANTIHYPERTENSIVE TRANSDERMAL PATCH	Jatin Pant* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun

359	Medical Science Including Pharmaceutical Science	P	DESIGN AND DEVELOPMENT OF CROSS LINKED GELATIN OCULAR INSERT FOR THE MANAGEMENT OF FUNGAL KERATITIS	Harish Chandra* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Vinod Rana	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun
360	Medical Science Including Pharmaceutical Science	P	SYNTHESIS OF SUBSTITUTED 1,3,5-TRIAZINE DERIVATIVES AS ANTIDEPRESSANT AGENTS	Abhay Kumar* Divya Juyal, Amitava Ghosh, Archana Uppal	Shri Guru Ram Rai Institute of Technology and Sciences, Dehradun Shri Guru Ram Rai Institute of Technology and Sciences, Dehradun
361	Medical Science Including Pharmaceutical Science	P	DESIGN AND DEVELOPMENT OF CONTROLLED-RELEASE EFFERVESCENT FLOATING MATRIX TABLETS OF RANITIDINE HYDROCHLORIDE: EFFECT OF POLYMERS, DISSOLUTION METHODS/MEDIUMS AND AGITATION INTENSITY ON DRUG RELEASE	Aman Puri* Rohit Bisht, Kumud Upadhyaya, Prashant Dabral, Tulsi Bisht	G.I.S. Institute of Professional Studies, Dehradun G.I.S. Institute of Professional Studies, Dehradun
362	Medical Science Including Pharmaceutical Science	P	STANDARDIZATION & QUALITY CONTROL OF ALOE VERA JUICE (MARKETED FORMULATION)	Preeti Garg* Abhishek Mathur ¹ Arvind Kumar ²	Department of Biotechnology, Dev Bhoomi Group of Institutions, Dehradun Dept. of Biotechnology, Dev Bhoomi Group of Institutions, Dehradun Patanjali Ayurveda Ltd., Hardwar
363	Medical Science Including Pharmaceutical Science	P	METAL COMPLEXES IN DEVELOPMENT OF ANTICANCER DRUGS	Sonia Saklani*	Department of Pharmaceutical Chemistry, Gayatri College of Biomedical Science, Dehradun

364	Medical Science Including Pharmaceutical Science	O	PHYTOCHEMICAL AND ANTIBACTERIAL EVALUATION OF <i>SATYRIUM NEPALENSE</i> AND <i>SAUSSUREA SIMPSONIANA</i> , THE THREATENED MEDICINAL HERBS OF UTTARAKHAND	Abhay Prakash Mishra* Sarla Saklani	H.N.B. Garhwal University, Srinagar Department of Pharmaceutical Chemistry, H.N.B. Garhwal University, Srinagar
365	Medical Science Including Pharmaceutical Science	O	IN VITRO ANTIMICROBIAL ACTIVITY, NUTRITIONAL PROFILE AND PHYTOCHEMICAL SCREENING OF MEDICINAL PLANT OF GARHWAL HIMALAYA	Subhash Chandra* Sarla Saklani	H.N.B. Garhwal University, Srinagar, Uttarakhand Department of Pharmaceutical Chemistry, H.N.B. Garhwal University, Srinagar
366	Medical Science Including Pharmaceutical Science	P	FORMULATION AND IN VITRO EVALUATION OF GASTRORETENTIVE FLOATING MICROSPHERES OF CLARITHROMYCIN	Ashtami Semwal* Ajay Semalty, Mona Semalty, Prateeksha Badoni, Rahul Kumar	Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar
367	Medical Science Including Pharmaceutical Science	P	FORMULATION AND IN VITRO EVALUATION OF PHOSPHOLIPID COMPLEX OF SALICYLIC ACID	Prateeksha Badoni* Mona Semalty, Ajay Semalty, Prateeksha Badoni, Rahul Kumar	Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar

368	Medical Science Including Pharmaceutical Science	P	PREPARATION, CHARACTERIZATION AND <i>IN-VIVO</i> EVALUATION OF A NOVEL ANTI- OBESITY FENUGREEK EXTRACT ALGINATE BEADS AS HERBAL DRUG DELIVERY SYSTEM	Rahul Kumar* Ajay Semalty Mona Semalty Ashtami Semwal Prateeksha Badoni	Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar Garhwal Department of Pharmaceutical Sciences, H.N.B. Garhwal University, Srinagar Garhwal
369	Medical Science Including Pharmaceutical Science	O	PRODUCTION OF BACOSIDE IN CALLUS CULTURE OF MEDICINALLY IMPORTANT PLANT <i>BACOPA MONNIERI</i> (L.) PENNELL	Geeta Pathak* Prabha Bisht	Tissue Culture Division, Forest Research Institute, Dehradun Tissue Culture Division, Forest Research Institute, Dehradun
370	Medical Science Including Pharmaceutical Science	P	PHARMACOLOGICAL EVALUATION OF <i>Verbascum thapsus</i> FOR ITS ANTIPYRETIC POTENTIAL	Himanshu Pal* Tirath Kumar	Department of Pharmaceutical Science , Kumaun University , Bhimtal Campus , Nainital Dept. of Pharmaceutical Science , Kumaun University , Bhimtal Campus , Nainital
371	Medical Science Including Pharmaceutical Science	O	DESIGN, SYNTHESIS OF GUANIDINE DERIVATIVES AND THEIR BIOLOGICAL EVALUATION AS ANTI-HYPERGLYCEMIC	Neha Krishnarth* Anupam Bisht, Shweta Verma, Basant Sharma	Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun

37 2	Medical Science Including Pharmaceutica l Science	P	SYNTHESIS AND EVALUATION OF BIOLOGICAL ACTIVITY OF NAPROXEN DERIVATIVES	Basant Sharma* Mohammad Ajmal, Mamta farswan Singh, Neha Krishnarth	Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun
37 3	Medical Science Including Pharmaceutica l Science	P	AN ANTIOXIDANT POTENTIAL OF HYDROMETHANOLIC EXTRACT OF ZANTHOXYLUM ARMATUM BARK	Himani Karki* Kumud Upadhyaya	Department of Pharmaceutical Science, Kumaun University, Bhimtal Campus, Nainital Dept. of Pharmaceutical Science, Kumaun University, Bhimtal Campus, Nainital
37 4	Medical Science Including Pharmaceutica l Science	P	PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL POTENTIAL OF <i>EQUISETUM DIFFUSUM</i> EXTRACTS	Gaurav kumar* Sonia Sakalani, Rajat Singh	Department of Pharmaceutical Chemistry, Gayatri College of Biomedical Science, Dehradun Department of Pharmaceutical Chemistry, Gayatri College of Biomedical Science, Dehradun

37 5	Medical Science Including Pharmaceutica l Science	O	SYNTHESIS AND CHARACTERIZATION OF SOME ARYL ETHOXY DERIVATIVES AS ANTI- AMNESIC AGENT	Bhawana Joshi* Anupam Bisht ¹ Richa Gupta ² Ruchi Malik ³	Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun East Point Group of Institution, Bangalore B.R.Nahata College of Pharmacy , Mandsaur, Madhya Pradesh
37 6	Medical Science Including Pharmaceutica l Science	O	TO SYNTHESISE AND CHARACTERISE SOME POTENTIAL ANTI-AMNESIC AGENTS	Subhash Chandra Deolal* Anupam Bisht ¹ Richa Gupta ² Ruchi Malik ³	Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences, Balawala, Dehradun East Point Group of Institution, Bangalore B.R.Nahata College of Pharmacy , Mandsaur, Madhya Pradesh
37 7	Medical Science Including Pharmaceutica l Science	P	A COMPARETIVE PHARMACOGNOSTIC AND ANTIMICROBIAL ACTIVITY OF ROOT AND LEAF OF <i>ACHYRANTHES ASPERA</i> LINN. : A MEDICINAL PLANT	Hema Bisht* Geeta Pathak Anupam Bisht	Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun

378	Medical Science Including Pharmaceutical Science	P	EVALUATION AND ANTIMICROBIAL STUDY ON LEAVES OF <i>ELAEOCARPUS GANITRUS</i> : AN ENDANGERED PLANT	Suman Singh* Geeta Pathak S.M. Patil	Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun
379	Medical Science Including Pharmaceutical Science	P	PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF <i>VITEX NEGUNDO</i>	Prashant Kumar* Geeta Pathak	Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun Shri Dev Bhoomi Institute of Education Science And Technology, Dehradun
380	Physics	O	MODIFICATIONS TO THE HADRONIC REGGE TRAJECTORIES WITH FINITE QUARK MASSES	Hemwati Nandan* A. Ranjan	Department of Physics, Gurukula Kangari Vishwavidyalaya, Haridwar Department of Physics, IIT Kharagpur
381	Physics	O	EFFECT OF SIZE ON MELTING TEMPERATURE AND DEBYE TEMPERATURE OF NANOMATERIALS	Archana Bhatt* Vishalakshi Joshi, Raghuvesh Kumar, M. Kumar	G. B. Pant University of Agriculture & Technology, Pantnagar G. B. Pant University of Agriculture & Technology, Pantnagar
382	Physics	O	ROLE OF OCTONIONS IN GRAND UNIFIED THEORIES	Pushpa* P. S. Bisht, O. P. S. Negi	Department of Physics, S.S.J.Campus, Almora, Kumaun University, Nainital Department of Physics, S.S.J.Campus, Almora,

					Kumaun University, Nainital
38 3	Physics	P	STUDY OF THE STRUCTURAL PROPERTIES OF DYSPROSIUM DOPED COBALT FERRITE	Hemaunt Kumar* R.C.Srivastava, H.M. Agrawal	G. B. Pant University of Agriculture & Technology, Pantnagar G. B. Pant University of Agriculture & Technology, Pantnagar
38 4	Physics	O	THE STUDY OF FUNDAMENTAL ATMOSPHERIC PARAMETERS AND CHEMICAL COMPOSITION OF MASSIVE PULSATING STARS	Chhavi P. Pandey* S. Bisht ¹ B. B. Sanwal ²	Aryabhata Research Institute of Observational Sciences, Nainital Department of Physics, DSB Campus, Kumaun University, Nainital Aryabhata Research Institute of Observational Sciences, Nainital
38 5	Physics	O	EFFECT OF PRESSURE ON NANOMATERIALS	Vishalakshi Joshi * Archana Bhatt, M. Kumar	G. B. Pant University of Agriculture & Technology, Pantnagar G. B. Pant University of Agriculture & Technology, Pantnagar

38 6	Physics	O	PREPARATION AND CHARACTERIZATION OF PROTON-CONDUCTING NH ₄ HSO ₄ -SiO ₂ COMPOSITE SOLID ELECTROLYTE	Kapil Malik * Anubha Gupta ¹ Saurabh Singh Pundir ² Pawan Kumar ³	Gurukula Kangari Vishwavidyalaya, Haridwar ¹ SGIT, Ghaziabad ² JIIT, Noida ³ Gurukula Kangari Vishwavidyalaya, Haridwar
38 7	Physics	P	A STUDY OF THERMOELASTIC PROPERTY FOR NANOMATERIAL	Vijay Veer* U.C. Johri	G. B. Pant University of Agriculture & Technology, Pantnagar G. B. Pant University of Agriculture & Technology, Pantnagar
38 8	Physics	P	SENSING OF IODINE BASED ON ENHANCED FLUORESCENCE OF 5-AMINO SALICYLIC ACID.	Priyanka Arora* Neeraj K Joshi, Kanchan Suyal, Sanjay Pant	Photophysics Laboratory, Deptt. of Physics, Kumaun University, Nainital Photophysics Laboratory, Deptt. of Physics, Kumaun University, Nainital
38 9	Physics	O	VALIDITY OF EHRENFEST'S THEOREM FOR GENERALIZED FIELDS OF DYONS	Gaurav Karnartak* P.S. Bisht ¹ O. P. S. Negi ¹ H. Dehnen ²	Kumaun University, S.S.J. Campus, Almora Kumaun University, S.S.J. Campus, Almora Universitaet Konstanz, Fachbereich Physik, Postfach- M677, D-78457, KONSTANZ, Germany

390	Physics	O	ELECTRON –MONOPOLE DUALITY AND FRACTIONAL QUANTUM HALL EFFECT	Pawan Kumar Joshi* P.S. Bisht, O. P. S. Negi	Kumaun University, S.S.J. Campus, Almora Department of Physics, Kumaun University, S.S.J. Campus, Almora
391	Physics	O	OCTONIONS AND SEVEN DIMENSIONAL ELECTROMAGNETISM	Bhupendra C. S. Chauhan* P.S. Bisht, O. P. S. Negi	Kumaun University, S.S.J. Campus, Almora Department of Physics, Kumaun University, S.S.J. Campus, Almora
392	Physics	O	OCTONIONS AND NON-ABELIAN GAUGE THEORY	B.C.Chanyal* P.S. Bisht O. P. S. Negi	Kumaun University, S.S.J. Campus, Almora Department of Physics, Kumaun University, S.S.J. Campus, Almora
393	Physics	P	HARMFUL HEALTH EFFECTS OF EMW EMITTED BY MOBILE PHONE ON HUMAN BEINGS	Anuj Tyagi* Vijay Kumar ¹ P.P. Pathak ²	Graphic Era University, Dehradun ¹ Dept. of Physics, Graphic Era University, Dehradun ² Dept. of Physics, Gurukul Kangri Vishwavidyalya, Haridwar
394	Physics	O	COMPARATIVE STUDY OF ELECTROCHEMICAL HEALING IN ANIMALS AND PLANS	Hemendra Tripathi* Devendra Singh, P.P. Pathak	Gurukul Kangri Vishwavidyalya, Haridwar Dept. of Physics, Gurukul Kangri Vishwavidyalya, Haridwar

39 5	Physics	P	POLARIZATION PROPERTY OF PORRO PRISM IN LASER CAVITY	Rajeev Saxena* P.P. Pathak	Dept. of Physics, Gurukul Kangri Vishwavidyalya, Haridwar Dept. of Physics, Gurukul Kangri Vishwavidyalya, Haridwar
39 6	Physics	O	A PARAMETRIC CLASS OF WELL BEHAVED RELATIVISTIC CHARGED FLUID DISTRIBUTION	Pratibha Fuloria* Neeraj Pant ¹ B.C.Tiwari ²	Department of Physics, Kumaun University, S.S.J. Campus, Almora ¹ Department of Math, National Defence Academy, Khadakwasla, Pune ² Department of Physics, Kumaun University, S.S.J. Campus, Almora
39 7	Physics	P	HARMFULNESS OF TRANSMISSION TOWER ON BLOOD TISSUE	Arvind Kumar* Vijay Kumar ¹ P.P. Pathak ²	Graphic Era University, Dehradun ¹ Dept. of Physics, Graphic Era University, Dehradun ² Dept. of Physics, Gurukul Kangri Vishwavidyalya, Haridwar
39 8	Physics	P	PROSPECTS OF SOLAR ENERGY APPLICATIONS IN UTTARAKHAND	Gunjan Purohit* Ishan Purohit	D.A.V. (PG) College, Dehradun Lahmeyer International (India) Private Limited, Gurgaon, India
39 9	Physics	O	ACOUSTIC-PHONETIC FEATURES FOR THE AUTOMATIC CLASSIFICATION OF STOP CONSONANTS	M.K. Riyal* R.K. Upadhyay	Governemnt P.G. College, Rishikesh Governemnt P.G.

					College, Rishikesh
40 0	Physics	O	DURATIONAL CHARACTERISTICS OF GARHWALI HINDI SPEECH DATABASE	R.K. Upadhyay* M.K. Riyal	Governemnt P.G. College, Rishikesh Governemnt P.G. College, Rishikesh
40 1	Physics	O	ELECTRIC AND MAGNETIC FIELDS FROM RED SPRITES	Manoj Kumar Paras* Jagdish Rai	Indian Institute of Technology Roorkee, Roorkee Department of Physics, Indian Institute of Technology Roorkee, Roorkee
40 2	Physics	O	ELECTROMAGNETIC INDUCED TRANSPARENCY IN DOPPLER BROADENED LADDER TRANSITION WITH MULTIPLE EXCITED LEVELS	Vineet Bharti* Ajay Wasan	Indian Institute of Technology Roorkee, Roorkee Department of Physics, Indian Institute of Technology Roorkee, Roorkee
40 3	Physics	P	REFRACTIVE INDEX MAXIMUM IN WATER	Anuj Kumar* P.P. Pathak ¹ Rashmi Kumari ² Narsingh Dass ²	Gurukul Kangri Vishvidyalya, Haridwar ¹ Physics Department, Gurukul Kangri Vishvidyalya, Haridwar ² Physics Department, College of Engineering, Roorkee

40 4	Physics	O	FREQUENCY CONVERSION OF Nd:YAG LASER, USING OPTICAL PARATETRIC OSCILLATION PROCESS	Kireet Semwal* S.C. Bhatt	Department of Physics, Applied Science & Humanities Department, GB Pant Engineering College, Pauri Garhwal Department of Physics, H.N.B. Garhwal Central University, Srinagar Garhwal
40 5	Physics	O	INVESTIGATION OF THE SPIN DEPENDENCE OF THE P-WAVE NEUTRON STRENGTH FUNCTION	S.K. Singhal	ICFAI University, Dehradun
40 6	Science & Society Including Science Popularization	O	CAPACITY BUILDING OF HILL FARMERS IN SIMPLE AND APPROPRIATE RURAL TECHNOLOGIES, GARHWAL HIMALAYA	Vikram S. Negi * R.K. Maikhuri	G.B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal G.B. Pant Institute of Himalayan Environment and Development, Garhwal Unit, Srinagar Garhwal
40 7	Science & Society Including Science Popularization	O	UTILIZATION OF THE SKILLS OF MULTITALENTED EMPLOYEES BY USING ARTIFICIAL INTELLIGENCE TECHNIQUE	Khaliqur Rehman Ansari* Garima Krishna	College of Engineering Roorkee (CORE), Roorkee College of Engineering Roorkee (CORE), Roorkee
40 8	Science & Society Including Science Popularization	O	EFFECTIVE ROLE OF NEWSPAPERS IN HEALTH AND ENVIRONMENT COMMUNICATION IN HIMALAYAN TERRAIN : A CASE STUDY OF VARIOUS NEWSPAPERS PUBLISHED FROM UTTARAKHAND	Manoj Sundriyal* D.P. Uniyal	Doon University, Dehradun Uttarakhand State Council for Science and Technology, Dehradun

409	Science & Society Including Science Popularization	O	NORMS FOR THE SOCIO ECONOMIC STATUS SCALE OF HILL WOMEN IN UTTARAKHAND REGION	Divya Singh* Deepa Vinay	College of Home Science, G.B. Pant University of Agriculture and Technology, Pantnagar College of Home Science, G.B. Pant University of Agriculture and Technology, Pantnagar
410	Science & Society Including Science Popularization	O	CAPACITY DEVELOPMENT AND ECONOMIC UPLIFTMENT OF RURAL WOMEN THROUGH POND-BASED INTEGRATED FARMING SYSTEM APPROACH	Deepa Bisht*	Rural Technology Complex, G. B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora
411	Science & Society Including Science Popularization	O	AN ANALYTICAL STUDY ON : CORPORATE GEVERNANCE - POLICIES AND PRACTIVES WITH SPECIAL REFERENCE TO PRIVATE SECTOR FIRMS OF UTTARAKHAND	Jyotsna Ghildiyal Bijalwan* Anchit Bijalwan	Uttarakhand Technical University, Dehradun Uttarakhand Technical University, Dehradun
412	Veterinary Sciences & Animal Husbandry	O	CANINE TRANSMISSIBLE LYMPHOSARCOMA IN AGED MALE LABRADOR RETRIEVER DOG- A CASE STUDY IN UTTARAKHAND	Amit Ramesh Patil* Seema Agarwal, D.K. Agrawal, Dheeraj Adhikari	Department of Veterinary Pathology, C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar Department of Veterinary Pathology, C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar

41 3	Veterinary Sciences & Animal Husbandry	P	ASSESSMENT OF IMMUNOMODULATORS AND HAEMATINIC FOR AMELIORATION OF PATHOLOGICAL ALTERATIONS AND GROWTH RETARDATION IN CHICKEN INFECTIOUS ANAEMIA VIRUS INFECTED CHICKS	Prakash Bhatt* S.K. Shukla, Mahesh Kumar, A.K.Thathoo	Department of Veterinary Medicine, G.B. Pant University of Agriculture & Technology, Pantnagar Department of Veterinary Medicine, G.B. Pant University of Agriculture & Technology, Pantnagar
41 4	Veterinary Sciences & Animal Husbandry	O	SEROEPIDEMIOLOGY OF INFECTIOUS BOVINE RHINOTRACHEITIS IN SOME PART OF UTTARAKHAND	Vipul Thakur* Mahesh Kumar	Department of Veterinary Medicine, G.B. Pant University of Agriculture & Technology, Pantnagar Department of Veterinary Medicine, G.B. Pant University of Agriculture & Technology, Pantnagar
41 5	Veterinary Sciences & Animal Husbandry	O	ANTI-PROLIFERATIVE AND PRO-APOPTOTIC ACTIVITY OF <i>WITHANIA SOMNIFERA</i>	Sudhir Kumar* B. Ganguly, V. Umapathi, T. Ambwani, V.S. Rajora	C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar
41 6	Veterinary Sciences & Animal Husbandry	O	OVER-EXPRESSION, PURIFICATION AND IMMUNOGENIC EVALUATION OF OUTER MEMBRANE PROTEIN (Omp C) OF <i>Salmonella</i> TYPHIMURIUM AS A CANDIDATE FOR SUBUNIT VACCINE AGAINST SALMONELLOSIS	Richa Jha* Anil Kumar, Anjani Saxena, Rajesh Kumar, Mumtesh Kumar	G.B. Pant University of Agriculture & Technology, Pantnagar G.B. Pant University of Agriculture & Technology, Pantnagar

41 7	Veterinary Sciences & Animal Husbandry	O	TRAUMATIC RETICULO- PERICARDITIS IN JERSEY CROSS BREED DAIRY COW: A CASE REPORT	Dheeraj Adhikari* Seema Agarwal Amit Ramesh Patil	Department of Veterinary Pathology, C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar Department of Veterinary Pathology, C.O.V.A.Sc., G.B. Pant University of Agriculture & Technology, Pantnagar
41 8	Veterinary Sciences & Animal Husbandry	O	EFFECT OF FEEDING COMPACT FEED BLOCK ON PERFORMANCE OF LACTATING BUFFALOES	Ravindra Kumar Tiwari* N. K. Singh ¹ V. K. Sachan ²	SMS, Animal science, KVK ,Chinyalisaur, Uttarkashi ¹ SMS, Veterinary Science, KVK, Bageshwar ² SMS, Animal science, KVK ,Chinyalisaur, Uttarkashi
41 9	Zoology	O	INFORMATION COMMUNICATION TECHNOLOGIES IN IMPARTING FISHERIES EDUCATION AMONG RURAL WOMEN IN UTTARAKHAND	Adita Sharma* Arpita Sharma ¹ Amita Saxena ²	Dept. of Fishery Biology, College of Fisheries, G. B. Pant University of Agriculture & Technology, Pantnagar ¹ Dept. of Agricultural Communication, College of Agriculture, G. B. Pant University of Agriculture & Technology, Pantnagar ² Dept. of Fishery Biology, College of Fisheries,

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of Agriculture &
Technology,
Pantnagar

420	Zoology	O	DISTRIBUTION PATTERNS OF BENTHIC MACRO-INVERTEBRATE COMMUNITY IN HIMALAYAN STREAMS HENEVAL TRIBUTARY OF RIVER GANGA OF UTTARAKHAND	Divya Goyal* V.P. Semwal	Dept. of Biotechnology, Dev Bhoomi Group of Institutions (DBGI), Dehradun Dept. of Zoology, Govt. P.G. College, New Tehri, Tehri Garhwal
421	Zoology	O	SILKWORM HYBRIDS IN SERICULTURE : UTTARAKHAND PERSPECTIVE	Pankaj Tewary* P.K. Singh ¹ M.A. Khan ²	Regional Sericulture Research Station, Central Silk Board, Sahaspur, Dehradun ¹ Regional Sericulture Research Station, Central Silk Board, Sahaspur, Dehradun ² Central Sericultural Research & Training Institute, Pampore, Kashmir

42 2	Zoology	O	PEST OF MUGA HOST PLANT AND THEIR CONTROL MEASURE	B.K. Negi* D.P. Paliwal ¹ B. Choudhary ² P. Jai Prakash ²	ESSPC, Central Silk Board, Dehradun, Uttarakhand ¹ REC, CSB, Bagaswar, Uttarakhand ² MSSO, CSB, Guwahari, Assam
42 3	Zoology	O	THE SPREAD OF <i>DIDYMOSPHENIA GEMINATA</i> (LYNGBYE) SCHMIDT IN THE RIVERS OF INDIAN HIMALAYA (DOON VALLEY): FIRST RECORD IN UTTARAKHAND	Rachna Nautiyal* Prakash Nautiyal	Zoology Department, Government P.G. College, Dakpathar, Dehradun Zoology Department, H.N.B. (Central) Garhwal University, Srinagar
42 4	Zoology	P	HISTOPATHOLOGICAL STUDIES ON THE EFFECT OF SODIUM FLUORIDE ON THE REPRODUCTIVE ORGANS AND BODY WEIGHT OF MALE ALBINO RAT	Smita Tiwari* R.K. Pande	D.B.S. (PG) College, Dehradun D.B.S. (PG) College, Dehradun
42 5	Zoology	O	BIO-EFFICACY OF INSECTICIDES AGAINST AMARANTH LEAF WEBBER (<i>HYMENIA RECURVALIS</i>) LARVAE IN GARHWAL HILLS OF UTTARAKHAND	Jagbir Singh* B.S. Bisht	H.N.B. Garhwal university, S.R.T. Campus, Badshahithoul, Tehri H.N.B. Garhwal university, S.R.T. Campus, Badshahithoul, Tehri
42 6	Zoology	P	ANTIFERTILITY AND HISTOPATHOLOGICAL STUDIES OF A HERBAL PREPARATION IN FEMALE ALBINO RAT	S.P. Singh* M.K. Purohit	S.G.R.R. (PG) College, Dehradun S.G.R.R. (PG) College, Dehradun

42 7	Zoology	O	COMPARATIVE STUDY OF ADHESIVE APPARATUS EPIDERMIS OF HILL-STREAM FISHES: A SCANNING ELECTRON MICROSCOPIC INVESTIGATION	Suresh Chandra Joshi* Ila Bisht, S.K. Agarwal,	Departement of Zoology, Kumaun University, S.S.J. Campus, Almora Departement of Zoology, Kumaun University, S.S.J. Campus, Almora
42 8	Zoology	P	COMPARATIVE STUDY OF “ADHESIVE APPARATUS EPIDERMIS” OF HILL-STREAM FISHES: A SCANNING ELECTRON MICROSCOPIC INVESTIGATION	Hoshiyar Singh* S. C. Joshi, Ila bisht, S.K.Agarwal	Departement of Zoology, Kumaun University, S.S.J. Campus, Almora Departement of Zoology, Kumaun University, S.S.J. Campus, Almora
42 9	Zoology	O	GUILD STRUCTURE AND COMPOSITION OF SPIDER ASSEMBLAGES IN NANDA DEVI BIOSPHERE RESERVE, WESTERN HIMALAYAS, INDIA	Shazia Quasin* V.P.Uniyal	Wildlife Institute of India, Dehradun Wildlife Institute of India, Dehradun
43 0	Zoology	O	FISH AND FISHERIES OF AGLAR RIVER, GARHWAL HIMALAYAS, INDIA	Priya Aggarwal* Manisha Uniyal	Department of Zoology, S.G.R.R. (PG) College, Dehradun Department of Zoology, S.G.R.R. (PG) College, Dehradun
43 1	Zoology	O	MONITORING MOTH DIVERSITY AND ITS IMPORTANCE AS INDICATOR GROUP FOR BIODIVERSITY CONSERVATION IN GANGOTRI LANDSCAPE, UTTARAKHAND, INDIA	Abesh Kumar Sanyal* Manish Bhardwaj V. P. Uniyal	Wildlife Institute of India, Dehradun Wildlife Institute of India, Dehradun

43 2	Zoology	O	EFFECTS OF SODIUM ARSENITE ON THE REPRODUCTIVE SYSTEM OF MALE ALBINO RATS (<i>Rattus rattus norvegicus</i>): A HISTOPATHOLOGICAL ANALYSIS	Reema Pachnanada* S.P. Singh	D.B.S. (PG) College, Dehradun Department of Zoology, D.B.S. (PG) College, Dehradun
43 3	Zoology	O	TESTING BUTTERFLIES AS INDICATORS OF INSECT DIVERSITY IN THREE HIGH-ALTITUDE PROTECTED AREAS OF GANGOTRI LANDSCAPE, UTTARAKHAND, INDIA	Manish Bhardwaj* Abesh K. Sanyal, V.P. Uniyal	Department of Landscape Level Planning and Management, Wildlife Institute of India, Dehradun Department of Landscape Level Planning and Management, Wildlife Institute of India, Dehradun
43 4	Zoology	O	WATER QUALITY MAPPING FOR SCHOOLS OF GARHWAL, UTTARAKHAND, INDIA	Nasreen Jeelani* D.P. Uniyal	Uttarakhand State Council for Science and Technology, Dehradun Uttarakhand State Council for Science and Technology, Dehradun
43 5	Innovator	O	DEVELOPMENT OF SIMPLE AND COST EFFECTIVE WATER PROOF MATERIAL FOR ROOF TOP CRACKS	Manoj Gattani*	M/s Innovative Green Energy Technologies, Dehradun
43 6	Innovator	O	SOLU - A LOW-COST PORTABLE SOLAR LIGHTING SYSTEM FOR HOMES	Brij Mohan Sharma* Sandip Malhotra	Society of Pollution & Environmental Conservation Scientists (SPECS), 115 – Krishan Nagar, DehraDun Society of Pollution & Environmental Conservation Scientists (SPECS), 115 – Krishan Nagar, DehraDun