

## 5th Regional Science Technology Congress (Region 7), 2022-23

### List of ourstanding papers

Sl. no.	ID	Name	Discipline	University / College	Title of the Paper	Abstract ID
1	92688302	PRIYAJIT MONDAL	Agriculture-Fisheries and Animal Science	THE UNIVERSITY OF BURDWAN	Screening of PPFM organisms for their use as plant growth promoters	AS-21
2	33840163	JAYASHRI DAS	Agriculture-Fisheries and Animal Science	The University of Burdwan	Dietary Supplementation of Freshwater Algae, Lyngbya and Spirogyra along with a probiotic bacterium, Bacillus safensis improved growth, digestive enzymes and immune parameters in rohu, Labeo rohita (Hamilton)	AS-05
3	61085076	FARUK BIN POYEN	Agriculture-Fisheries and Animal Science	University Institute of Technology	Smart Automatic Irrigation Controller	AS-09
4	68559724	ANGANA DAS	Agriculture-Fisheries and Animal Science	the University of Burdwan	Combined or sole application of natural prebiotics and a consortium of bacilli improved growth, feed utilization, metabolic function, immune status and gene expression in Rohu, Labeo rohita (Hamilton)	AS-07
1	64200644	MANASHI ADITYA	Botany	HOOGHLY MOHSIN COLLEGE	Metabolomic Fingerprints For Screening And Recommending Accessions Of Amaranthus hypochondriacus L. For Cultivation As Climate Resilient Alternate Crop With Functional Food Properties In Non-arable Land Of Rarh West Bengal	BO-23
2	75463478	Ananya Dey	Botany	University of Burdwan	Redox Biology in Governing Germination Dynamics of Orthodox Rice Seeds Under Environmental Stress: Implication in Agriculture	BO-10
3	50779209	BIYAS MUKHERJEE	Botany	The University of Burdwan	Investigation on phosphate solubilizing microbes isolated from rice rhizosphere	BO-33
4	77152622	ASHOK KUMAR MURMU	Botany	Hoogly Womens College	A study of the genus Sarcolobus in India in the context of taxonomy, adaptation and conservation.	BO-19
5	46195073	SOMENATH DAS	Botany	Burdwan Raj College	Nanoencapsulated Salvia sclarea L. essential oil for preservation of stored rice (Oryza sativa L.) samples against fungal infestation and Aflatoxin B1 contamination	BO-17
1	10867168	MADHUSREE NAG	Chemistry	THE UNIVERSITY OF BURDWAN	Eigenvector Coefficients of Molecular Graphs	CH-27
2	93158548	SUKRITI MUKHERJEE	Chemistry	THE UNIVERSITY OF BURDWAN	A New Fe(III) Complex Derived from Cyclohexane Based Imine Derivative: X-ray Structure and H <sub>2</sub> PO <sub>4</sub> -Recognition via H-bond Assisted Fluorescence	CH-11

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3	27241099	Parnajyoti Karmakar	Chemistry	Government General Degree College, Kalna-I	Mechanistic Pathway of Ligand Substitution Reactions on a Pt(II)-Amine Complex, Containing Chelated Malonate as Leaving Group with Bio-Active Nucleophiles at Physiological pH	CH-26
4	31318482	Sujaya Chakraborty	Chemistry	The University of Burdwan	A newly synthesized Schiff base platform for selective detection of Zn <sup>2+</sup> ions in both aqueous and solid state	CH-28
5	54356380	BIPLAB GHOSH	Chemistry	THE UNIVERSITY OF BURDWAN	A New Molybdenum(VI) Based Molecular Probe for Selective Recognition of Yttrium(III): Single Crystal X-ray Structure, Spectroscopic Studies and Theoretical Support	CH-08
1	27777594	RAKHI MONDAL	Earth Science	THE UNIVERSITY OF BURDWAN	Identification of Risk Zone using AHP in an Industrial Area: A Case Study of Sonepur-Bazari Open Cast Coal Mine, Paschim Bardhaman, West Bengal	ES-07
2	56468058	SOUMEN GHOSH	Earth Science	THE UNIVERSITY OF BURDWAN	Coastal vulnerability to environmental hazards of Indian Sundarban Delta using Multi-criterion Decision-Making Approaches	ES-17
3	43707920	KOYEL SARKAR	Earth Science	The University of Burdwan	Royal Heritage Sites and Built-up Eco-space of Burdwan Raj Dynasty: Spaces of Emotion and Nostalgia in Relation to Place	ES-12
4	53372505	Shyamal Dutta	Earth Science	Independent Researcher, Burdwan	Transformation of Ecosystem services in response to land use land cover dynamics in Paschim Bardhaman District of West Bengal, India: a Geospatial Approach	ES-16
5	88516812	SOMNATH MAHATO	Earth Science	THE UNIVERSITY OF BURDWAN	Use of Compact, Low-cost GNSS Modules for precise Surveying	ES-23
1	10568534	Sujoy Das	Engineering	National Institute of Technology, Durgapur-713209, 2. Durgapur Chemicals Limited, Durgapur-713215	Nanofluids: Key issues to enhance thermal conductivity, stability and its applications	EG-23
2	91313529	Sukabya Dan	Engineering	The University of Burdwan	An ICT-based Framework for Smart Agriculture	EG-38
3	76082244	RAJDIP GOSWAMI	Engineering	PHARMACOTHERAPEUTICS (FORMULATION AND DEVELOPMENT LAB)	DEVELOPMENT OF CO-PROCESSES EXCIPIENTS FOR FAST DISSOLVING TABLETS OF CARVEDILOL BY MULTIVARIATE ANALYSIS AND QBD	EG-17
4	63848511	Sumit Kumar	Engineering	National Institute of Technology, Durgapur	Design and Analysis of Two Stage Grid Connected Single Phase Solar Inverter	EG-33
5	22192074	SAIKAT SANTRA	Engineering	BENGAL SCHOOL OF TECHNOLOGY	Estradiol Mucoadhesive Buccal Film for Hormone Replacement Therapy : Development and Evaluation	EG-20

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1	46577818	Mr. Sanghamitra Sanyal	Environmental Science	Durgapur Government College	Time Series Analysis of Ground Water Quality at Selected Sites of Purba and Paschim Burdwan, West Bengal, India from 2010 to 2022	EN-11
2	13019371	Dr. Souvik Basak	Environmental Science	Dr. B.C. Roy College of Pharmacy & Allied Health Health Sciences	Construction of a novel immobilized microbial cell factory for green management of plastic waste	EN-23
3	23066671	Debojyoti Mishra	Environmental Science	The University of Burdwan	Biomagnification of elevated arsenic in freshwater fishes and probabilistic Human health risk assessment in two blocks of Murshidabad District, West Bengal	EN-10
4	91684344	Anupam Mondal	Environmental Science	The University of Burdwan	Efficacy of fish-bile mediated copper nanoparticles (FB-CuNPs), towards antibacterial and antibiofilm properties against ESKAPE pathogens	EN-21
5	12910842	SUGATA DAS	Environmental Science	THE UNIVERSITY OF BURDWAN	Assessment of biochar potential for reduction of cadmium toxicosis in an air-breathing teleost Heteropneustes fossilis (Bloch, 1794)	EN-09
1	33988219	Ritabrata Biswas	Mathematics	The University of Burdwan	Radio Characteristics of Recent Cosmos : Properties of O3N2 vs. Metallicity Patterns	MA-14
2	17062104	PURBASHA DEB	Mathematics	THE UNIVERSITY OF BURDWAN	PERIOD BUBBLING TO CHAOS: ITS MECHANISM AND CONTROL	MA-28
3	75448790	DR. AVISHEK CHAKRABORTY	Mathematics	ACADEMY OF TECHNOLOGY	Exponential Operator of Generalized Spherical Fuzzy Number and its application in MCGDM Problem	MA-09
4	44428860	Dr. Koushik Ghosh	Mathematics	University Institute of Technology, The University of Burdwan	Development of Position-Interactive Filter conforming Positional Importance for Data Denoising	MA-37
5	75380292	GIRIDHARI DEOGHARIA	Mathematics	The University of Burdwan	Cosmic Evolution Stories: Dynamics of Cosmological Parameters Under the Interaction in Dark Entities	MA-10
1	73143260	Debashis Pal	Medical Science	The university of Burdwan	Investigation of genetic modifiers responsible for clinical heterogeneity of different thalassemia subjects of West Bengal	MS-27
2	89085896	INDRANIL GANAI	Medical Science	THE UNIVERSITY OF BURDWAN	Role Of Single Nucleotide Polymorphism Of TBXA2R Gene In Asthmatics Of West Bengal, India	MS-11
3	21970531	SARMISTHA ADHIKARI	Medical Science	The University of Burdwan	Insight of Genetic Signatures of Telomere Maintenance Pathway in Aplastic Anaemia	MS-14
4	47167022	NASIMA SULTANA	Medical Science	THE UNIVERSITY OF BURDWAN	ADRB2 Genetic Polymorphism And Risk Of COPD In The West Bengal Population	MS-10
5	40672864	Saheen Sultana	Medical Science	The University Of Burdwan	Association Of ADAM33 Gene Polymorphism With Allergic Rhinitis Patients Of West Bengal, India	MS-26

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1	24949560	Sk Irsad Ali	Physics	The University of Burdwan	Investigation of Energy Band Gap and Its Correlation with Vacancy Defects of Cadmium Doped Tin Oxide Nanoparticles	PH-07
2	64646090	SHRABANI PAUL	Physics	THE UNIVERSITY OF BURDWAN	Optical, mechanical and photocatalytic properties of ball milled Bi <sub>2</sub> Te <sub>3</sub> : effects of milling time and sintering	PH-21
3	31847057	Ayan Dey	Physics	The University of Burdwan	A New Proposal of Frequency Encoded Quantum Optical Tri-State Oscillator Using SOA-Based Photonic Band Gap Crystal And Pauli-X Logic Gate.	PH-01
4	65888856	PROSENJIT SARKAR	Physics	Serampore College	Unusual critical behaviour in the vicinity of tricritical point	PH-18
5	38527285	MAMOTAJ KHATUN	Physics	University of Burdwan	Structural, Photocatalytic degradation and Electrical study of NiSnO <sub>3</sub> nanoparticles	PH-10
1	25280614	DR. SUMANA DUTTA	Physiology	Durgapur Government College	Effect of the 1-butanol fraction (BUF) of M. hexandra leaf on the FBGL of normal mice	PG-03
2	55415652	Dr. SOUREN GOSWAMI	Physiology	THE UNIVERSITY OF BURDWAN	Role of Crinum asiaticum L. in normalizing the blood physiology of in vivo Dalton's Lymphoma bearing mice model	PG-12
3	98119299	DEBASMITA DAS	Physiology	SERAMPORE COLLEGE (affiliated to University of Calcutta)	Protective efficacy of quercetin on monosodium glutamate induced derangements of spleen and thymus of male albino Wistar rats	PG-07
4	79043560	Jeet Datta	Physiology	Hooghly Mohsin College	Role of AI to fight Coronary Artery Disease	PG-14
5	70908152	RAJARSHI PAUL	Physiology	SERAMPORE COLLEGE	Investigation on the Work-related Musculoskeletal Disorders among Manual Handloom Weavers of West Bengal	PG-13
1	89052605	Arijit Chatterjee	Social Science and IPR and Others	The University of Burdwan	IPR Contribution in NIRF Ranking : A Review	SI-05
2	51593959	ARPITA DEY	Social Science and IPR and Others	The University of Burdwan	Geographical Indications (GI) of Darjeeling Tea: An Empirical Study	SI-17
3	12510226	Arindam Roy	Social Science and IPR and Others	The University of Burdwan	Beggary And Pavement Dwelling: Experiences From The Street Beggars Of Kolkata, West Bengal, India	SI-21
4	96003865	Sourav Biswas	Social Science and IPR and Others	University Institute of Technology, The University of Burdwan	DivyaPay: Empowering Divyangjans, Exploring the Digital India Initiative	SI-01
5	70400404	Monikanchan Mandal	Social Science and IPR and Others	The University Of Burdwan	Sketching of health awareness issues in Bengali Literature: An Observation in 20th Century Bengal	SI-27
1	47491775	ABHINANDAN REJ	Zoology	THE UNIVERSITY OF BURDWAN	Galunisertib Acts Synergistically with Doxorubicin During Combined Chemotherapy Against Lymphoma	ZO-34

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2	37554258	JIT MARICK	Zoology	UNIVERSITY OF BURDWAN	Radiation Of Gangesiinae (Cestoda: Proteocephalidae) In Their Freshwater Fish hosts: Special Emphasis On Gangesia	ZO-11
3	59782232	Dr.Animesh Mondal	Zoology	Govt.Gen.Deg.College- Mangalkote	Modulation of Alpha-Synuclein Structure in Presence of Bio-mimetic Microenvironment	ZO-35
4	25084692	PARAMITA BANERJEE	Zoology	THE UNIVERSITY OF BURDWAN	The Effect of Salinity Range on the Larval Development and Emergence of Culicoides peregrinus (Diptera: Ceratopogonidae)	ZO-07
5	41527963	Madhurima Seal	Zoology	The University of Burdwan	Role of breeding habitat bacteria in modulation of oviposition response of malarial vector Anopheles subpictus (Grassi, 1899) in Hooghly, West Bengal, India	ZO-05