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CSIR UGC NET, GATE, IIT JAM, GAT B & CUET PG

AP SET
LIFE SCIENCES

TEST SERIES PLAN

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PAPER II — LIFE SCIENCES

STRUCTURE AND FUNCTION OF BIOMOLECULES

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Structure and Function of Biomolecules 01	50
	Structure and Function of Biomolecules 02	50
	Structure and Function of Biomolecules 03	50
PRACTICE TEST	Atoms Molecules Bonds	10
	Biomolecules	10
	Stabilizing Interactions	10
	Biophysical Chemistry	10
	Bioenergetics	10
	Enzyme Kinetics	10
	Protein Conformation	10
	Nucleic Acid Conformation	10
	Protein Stability	10
	Metabolism	10

CELLULAR ORGANIZATION

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Cellular Organization 01	50
	Cellular Organization 02	50
	Cellular Organization 03	50
PRACTICE TEST	Cell Wall Membrane	10
	Intracellular Organelles	10
	Genes and Chromosomes	10
	Microbial Physiology	10
	Cell Division Cycle	10

FUNDAMENTAL PROCESSES

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Fundamental Processes 01	50
	Fundamental Processes 02	50
	Fundamental Processes 03	50
PRACTICE TEST	DNA Replication	10
	RNA Synthesis	10
	Protein Synthesis	10
	Gene Expression Control	10

CELL COMMUNICATION AND CELL SIGNALING		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Cell Communication and Cell Signalling 01	50
	Cell Communication and Cell Signalling 02	50
	Cell Communication and Cell Signalling 03	50
PRACTICE TEST	Cell Signaling	10
	Cellular Communication	10
	Immune System	10
	Host Pathogen Interaction	10
	Cancer	10

DEVELOPMENTAL BIOLOGY		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Developmental Biology 01	50
	Developmental Biology 02	50
	Developmental Biology 03	50
PRACTICE TEST	Basic Concepts of Development	10
	Gametogenesis Fertilization Early Development	10
	Morphogenesis Organogenesis Animals	10
	Morphogenesis Organogenesis Plants	10
	Programmed Cell Death Aging Senescence	10

SYSTEM PHYSIOLOGY – PLANT		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	System Physiology Plant 01	50
	System Physiology Plant 02	50
	System Physiology Plant 03	50
PRACTICE TEST	Nitrogen Metabolism	10
	Photosynthesis	10
	Plant Hormones	10
	Respiration	10
	Secondary Metabolites	10
	Sensory Photobiology	10
	Solute Transport	10
	Stress Physiology	10

SYSTEM PHYSIOLOGY – ANIMAL		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	System Physiology Animal 01	50
	System Physiology Animal 02	50
	System Physiology Animal 03	50

TYPE	TEST NAME	NO. OF QUESTIONS
PRACTICE TEST	Blood and Circulation	10
	Cardiovascular System	10
	Respiratory System	10
	Nervous System	10
	Sense Organs	10
	Excretory System	10
	Thermoregulation	10
	Stress and Adaptation	10
	Digestive System	10
	Endocrinology and Reproduction	10
	Metaorganisms Holobionts	10
	Interorgan Communication Energy Homeostasis	10

INHERITANCE BIOLOGY

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Inheritance Biology 01	50
	Inheritance Biology 02	50
	Inheritance Biology 03	50
PRACTICE TEST	Chromosomal Extrachromosomal Inheritance	10
	Genes and Mutations	10
	Genetic Analysis	10
	Human Genetics	10
	Quantitative Genetics	10
	Structural Numerical Chromosome Alterations	10

EVOLUTION AND DIVERSITY OF LIFE FORMS

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Evolution and Diversity of Life Forms 01	50
	Evolution and Diversity of Life Forms 02	50
	Evolution and Diversity of Life Forms 03	50
PRACTICE TEST	Animal Life	10
	Evolution of Life and Life Forms	10
	Microbial Life	10
	Fungi	10
	Plant Life	10
	Principles and Methods of Taxonomy	10
	Protists	10

ECOLOGY AND BEHAVIOURAL BIOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Ecology and Behavioural Biology 01	50
	Ecology and Behavioural Biology 02	50
	Ecology and Behavioural Biology 03	50
PRACTICE TEST	Introduction to Ecology	10
	Population Ecology	10
	Community Ecology	10
	Ecosystem Ecology	10
	Human Impacts	10
	Biodiversity Conservation	10
	Acts and Policies	10
	Behavioural Ecology	10

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Bioinformatics and Computational Biology 01	50
	Bioinformatics and Computational Biology 02	50
	Bioinformatics and Computational Biology 03	50
PRACTICE TEST	Major Bioinformatic Resources	10
	Sequence Analysis	10
	Gene Annotation	10
	Molecular Modelling	10
	Protein 3D Structures	10
	Drug Design	10
	Systems Biology	10

BIOCHEMICAL ENGINEERING AND INDUSTRIAL BIOTECHNOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Biochemical Engineering and Industrial Biotechnology 01	50
	Biochemical Engineering and Industrial Biotechnology 02	50
	Biochemical Engineering and Industrial Biotechnology 03	50
PRACTICE TEST	Introductory Mathematics	10
	Engineering Principles	10
	Thermodynamics in Biological Systems	10
	Bioprocess Engineering and Technology	10
	Enzymes and Microbial Technology	10
	Downstream Processing in Biotechnology	10
	Bioprocess Plant Design	10
	Metabolic Engineering and Synthetic Biology	10

ADVANCES IN BIOTECHNOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Advances in Biotechnology 01	50
	Advances in Biotechnology 02	50
	Advances in Biotechnology 03	50
PRACTICE TEST	Recombinant DNA Technology	10
	Medical Biotechnology	10
	Animal Biotechnology	10
	Agriculture Biotechnology	10
	Marine Biotechnology	10
	Environmental Biotechnology	10

METHODS IN BIOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Methods in Biology 01	50
	Methods in Biology 02	50
	Methods in Biology 03	50
PRACTICE TEST	Molecular Biology Techniques	10
	Biophysical Methods	10
	Genomics Transcriptomics Proteomics Metabolomics	10
	Radiolabeling Techniques	10
	Histochemical and Immunotechniques	10
	Microscopic Techniques	10
	Electrophysiological Methods	10
	Methods in Field Biology	10
	Statistical Methods	10
	IPR Biosafety and Bioethics	10

PAPER I — GENERAL APTITUDE		
UNIT 1 : TEACHING APTITUDE		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Teaching Aptitude 01	50
	Teaching Aptitude 02	50
	Teaching Aptitude 03	50
PRACTICE TEST	Teaching	10
	Learner Characteristics	10
	Factors Affecting Teaching	10
	Methods of Teaching	10
	Teaching Support System	10
	Evaluation Systems	10

UNIT 2 : RESEARCH APTITUDE		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Research Aptitude 01	50
	Research Aptitude 02	50
	Research Aptitude 03	50
PRACTICE TEST	Research	10
	Methods of Research	10
	Thesis and Article Writing	10
	Steps of Research	10
	ICT in Research	10
	Research Ethics	10

UNIT 3 : COMPREHENSION		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Comprehension 01	50
	Comprehension 02	50
	Comprehension 03	50
PRACTICE TEST	Comprehension	10

UNIT 4 : COMMUNICATION		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Communication 01	50
	Communication 02	50
	Communication 03	50
PRACTICE TEST	Communication	10
	Effective Communication	10
	Mass Media and Society	10
	Barriers	10

UNIT 5 : MATHEMATICAL REASONING		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	Mathematical Reasoning 01	50
	Mathematical Reasoning 02	50
	Mathematical Reasoning 03	50
PRACTICE TEST	Types of Reasoning	10
	Number Letter Series Codes	10
	Mathematical Aptitude	10

UNIT 6 : LOGICAL REASONING		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Logical Reasoning 01	50
	Logical Reasoning 02	50
	Logical Reasoning 03	50
PRACTICE TEST	Understanding the Structure of Arguments	10
	Evaluating Deductive and Inductive Reasoning	10
	Analogies	10
	Venn Diagram	10
	Indian Logic	10

UNIT 7 : DATA INTERPRETATION		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Data Interpretation 01	50
	Data Interpretation 02	50
	Data Interpretation 03	50
PRACTICE TEST	Sources Classification of Data	10
	Quantitative Qualitative Data	10
	Graphical Representation	10
	Data Interpretation	10
	Data and Governance	10

UNIT 8 : INFORMATION AND COMMUNICATION TECHNOLOGY		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Information and Communication Technology 01	50
	Information and Communication Technology 02	50
	Information and Communication Technology 03	50
PRACTICE TEST	General Abbreviations Terminology	10
	Basics Internet Intranet Email Conferencing	10
	Digital Initiatives Higher Education	10
	ICT and Governance	10
	Data and Governance	10

UNIT 9 : PEOPLE DEVELOPMENT AND ENVIRONMENT		
TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	People Development and Environment 01	50
	People Development and Environment 02	50
	People Development and Environment 03	50
PRACTICE TEST	Development and Environment	10
	Human Environment Interaction	10
	Environmental Issues	10

TYPE	TEST NAME	NO. OF QUESTIONS
PRACTICE TEST (CONT.)	Impacts of Pollutants on Human Health	10
	Natural and Energy Resources	10
	Natural Hazards and Disasters	10
	Env Acts and International Agreements	10

UNIT 10 : HIGHER EDUCATION SYSTEM

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	Higher Education System 01	50
	Higher Education System 02	50
	Higher Education System 03	50
PRACTICE TEST	Ancient India Institutions	10
	Evolution of Higher Education Post Independence	10
	Oriental Conventional Non-Conventional Education	10
	Professional Technical Skill Education	10
	Value and Environmental Education	10
	Policies Governance and Administration	10

MOCK TESTS

TEST NAME	NO. OF QUESTIONS
Mock Test 01	150
Mock Test 02	150
Mock Test 03	150
Mock Test 04	150
Mock Test 05	150
Mock Test 06	150
Mock Test 07	150
Mock Test 08	150
Mock Test 09	150
Mock Test 10	150

YOUR PATH TO AP SET SUCCESS

Perseverance is not a long race; it is many short races one after the other.

— Walter Elliot

Every unit test sharpens your concepts, every practice test tightens your accuracy, and every mock test builds the stamina the real exam demands. Trust the plan, stay consistent, and let your preparation speak on result day.

Best Wishes from Team IFAS

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