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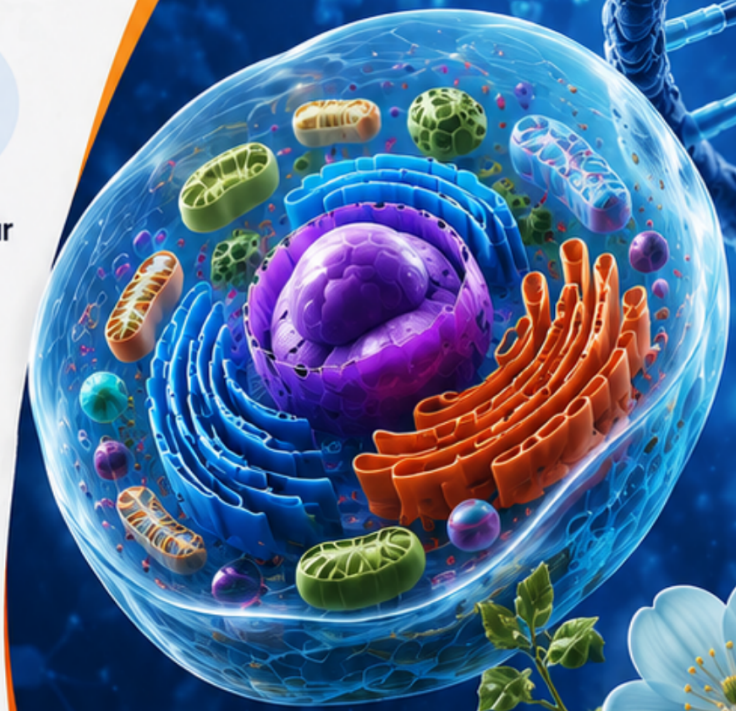

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PAPER II

MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY

TYPE	TEST NAME	NO. OF QUESTIONS
UNIT TEST	MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY 01	50
	MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY 02	50
	MOLECULES AND THEIR INTERACTION RELEVANT TO BIOLOGY 03	50
PRACTICE TEST	STRUCTURE OF ATOMS MOLECULES AND CHEMICAL BONDS	10
	COMPOSITION STRUCTURE AND FUNCTION OF BIOMOLECULES	10
	STABILIZING INTERACTIONS	10
	PRINCIPLES OF BIOPHYSICAL CHEMISTRY	10
	BIOENERGETICS	10
	PRINCIPLES OF CATALYSIS	10
	CONFORMATION OF PROTEINS	10
	CONFORMATION OF NUCLEIC ACIDS	10
	STABILITY OF PROTEINS AND NUCLEIC ACIDS	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	MEMBRANE STRUCTURE AND FUNCTION	10
	INTRACELLULAR ORGANELLES	10
	GENES AND CHROMOSOMES	10
	CELL DIVISION AND CELL 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 REPAIR RECOMBINATION	10
	RNA SYNTHESIS PROCESSING	10
	PROTEIN SYNTHESIS PROCESSING	10
	CONTROL OF GENE EXPRESSION	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 SIGNALING (CONT.)		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	CELL COMMUNICATION AND CELL SIGNALLING 02	**50**
	CELL COMMUNICATION AND CELL SIGNALLING 03	**50**
PRACTICE TEST	CELL SIGNALING	**10**
	CELLULAR COMMUNICATION	**10**
	INNATE ADAPTIVE IMMUNITY	**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 DEVELOPMENT	**10**
	GAMETOGENESIS FERTILIZATION EARLY DEVELOPMENT	**10**
	MORPHOGENESIS ORGANOGENESIS ANIMALS	**10**
	DEVELOPMENTAL BIOLOGY PLANTS	**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	PHOTOSYNTHESIS	**10**
	RESPIRATION PHOTORESPIRATION	**10**
	NITROGEN METABOLISM	**10**
	PLANT HORMONES	**10**
	SENSORY PHOTOBIOLOGY	**10**
	SOLUTE TRANSPORT PHOTOASSIMILATE TRANSLOCATION	**10**
	SECONDARY METABOLITES	**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**

SYSTEM PHYSIOLOGY – ANIMAL (CONT.)		
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 ALTERATIONS	**10**

DIVERSITY OF LIFE FORMS		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	DIVERSITY OF LIFE FORMS 01	**50**
	DIVERSITY OF LIFE FORMS 02	**50**
	DIVERSITY OF LIFE FORMS 03	**50**
PRACTICE TEST	EVOLUTION OF LIFE	**10**
	PRINCIPLES OF TAXONOMY	**10**
	MICROBIAL LIFE	**10**
	PROTISTS	**10**
	FUNGI	**10**
	PLANT LIFE	**10**
	ANIMAL LIFE	**10**

ECOLOGICAL PRINCIPLES		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	ECOLOGICAL PRINCIPLES 01	**50**
	ECOLOGICAL PRINCIPLES 02	**50**
	ECOLOGICAL PRINCIPLES 03	**50**
PRACTICE TEST	INTRODUCTION TO ECOLOGY	**10**
	POPULATION ECOLOGY	**10**
	COMMUNITY ECOLOGY	**10**
	ECOSYSTEM ECOLOGY	**10**
	HUMAN IMPACTS ON ECOSYSTEMS	**10**
	BIODIVERSITY AND CONSERVATION	**10**
	ACTS AND POLICIES	**10**
	BEHAVIOURAL ECOLOGY	**10**

EVOLUTION AND BEHAVIOR		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	EVOLUTION AND BEHAVIOR 01	**50**
	EVOLUTION AND BEHAVIOR 02	**50**
	EVOLUTION AND BEHAVIOR 03	**50**
PRACTICE TEST	MAJOR BIOINFORMATIC RESOURCES	**10**
	BASIC CONCEPTS SEQUENCE ANALYSIS	**10**
	GENE ANNOTATION	**10**
	MOLECULAR MODELLING AND DYNAMICS	**10**
	CLASSIFICATION PROTEIN 3D STRUCTURES	**10**
	DRUG DESIGN	**10**
	SYSTEMS BIOLOGY	**10**

APPLIED BIOLOGY		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
UNIT TEST	APPLIED BIOLOGY 01	**50**
	APPLIED BIOLOGY 02	**50**
	APPLIED BIOLOGY 03	**50**
PRACTICE TEST	INTRODUCTORY MATHEMATICS	**10**
	ENGINEERING PRINCIPLES	**10**
	THERMODYNAMICS	**10**
	BIOPROCESS ENGINEERING	**10**
	ENZYMES MICROBIAL TECHNOLOGY	**10**
	DOWNSTREAM PROCESSING	**10**
	BIOPROCESS PLANT DESIGN	**10**
	METABOLIC ENGINEERING	**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 PROTE	10
	RADIOLABELING TECHNIQUES	10
	HISTOCHEMICAL AND IMMUNOTECHNI	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

UNIT 7 DATA INTERPRETATION (CONT.)		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
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**
	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**

UNIT 10 HIGHER EDUCATION SYSTEM (CONT.)		
TYPE	**TEST NAME**	**NO. OF QUESTIONS**
PRACTICE TEST	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**

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