Obje	ctive
Paper	Code

BIOLOGY (Objective) GROUP - II
Time: 20 Minutes Marks: 17

8466

Roll No.:

You have four choices for each objective type question as A, B, C and D. The choice which you think is correctfill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Objective type question paper and leave other circles blank.

1	Questions	A		T	
	Environmental factors causing abnormal development are called:	Toxins	Carcinogens	C Teraugens	Mutgens
	A group of cells that is capable of division is known as:	Meristem	Primordium	Zone of cell	
3	Parthenocarpy is artificially induced for commercial purpose by adding:	Ethene	Abscisic acid	division	elongation Auxins
4		Smooth muscles	Cardiac	Skeletal	Voluntary
5	Secondary walls of sclerenchyma cells are impregnated with:	Cutin	muscles Suberin	Pectin	musles
6	A group of diseases in which bone resorption out paces bene deposit is known as:	Osteoporosis		Osteomalacia	Lignin
7	Nitrogen of amino acids is converted into ureaby:	Kidney	Liver	Spleen	Pancreas
8	Humming bird is included in:	Ectotherms	Endotnerms	Heterotherms	Poikilctherms
9	Which is green house gas:	Oxygen	Nitrogen	Hydrogen	Carbon dioxide
10	Northern coniferous forests are called:	Taiga	Savanna	Prairies	Tundra
11	The process in which micro-organism use proteins and release ammonia or a monium ion is called:	Nitrification	Denitrification	Ammonification	Assimilation
12	A group of bacteria that tolerate temperature up to 120°C are called:	Cyanobacteria	Eubacteria	Archaebacteria	Mycoplasma
13	A gene is synthesized in laboratory from mana using:	Reverse transcriptase	DNA polymerase	Transcriptase	RNA polymerase
14	Ina lihybrid cross the probability of plant whwrinkled and yellow seeds in F ₂ is:	1/16	3 16	9 16	16
15		Metamorphosis	Cytostasis	Epistasis	16 Metastasis
16	The nicrotubules of spindle are composed of spotein:	Actin	Myosin	Globulin	Tubulin
17	Synthesis of mRNA copy from DNA template is called:	Transcription	Translation		Transformation

340-XII121-4000

Intermediate Part Second

Roll No.

04

BIOLOGY

(Subjective)

GROUP - II

Time: 02:40 Hours

Marks: 68 F60-42-21

SECTION - I 2. Write short answers to any EIGHT parts. Define excretophore and anhydrobiosis. 16 Define panting with an example. (ii) Compare osmoregulation in marine fishes and fresh water fishes. (iii) (iv) Define moulting. Give the hormone involved. Give the structural composition of synovial joint. (v) What is osteomalacia and cleft palate? (vi) (vii) Give the mechanism of invitro fertilization. (viii) Define parthenocarpy and seed dormancy. Give the layering feature of grassland. Write scientific names of any two animals of temperate deciduous forest. (x)(xi) Define greenhouse effect. Give its causes. (xii) Define deforestation and afforestation. Write short answers to any EIGHT parts. write any four junctions of cytokinins. (i) 16 (ii) Differentiate between photoreceptors and thermoreceptors. (iii) write a note on Parkinson's disease. Differentiate between genotype and phenotype. (iv) what do you understand by independent assortment of alleles? (v)(vi) write a note on codominance. (vii) What are palindromic sequences? (viii) That is a nectar in biotechnology? Give its role. (ix)What is gene pharming? (χ) Efferentiate between ecosystem and biosphere. (xi) I fine food chain and food web. (xii) Viat is denitrification? 4. Writehort answers to any SIX parts. Ifferentiate between primary and secondary growth. (i) 12 (ii) Tfine teratology. Vite the function of DNA polymerase III. (iii) (iv) Viat is meant by karyotype? (v) C'e the structure of typical nucleotide. (Vi) I ferentiate between benign tumor and malignant tumor. (vii) Viat is tetrad? (viii) Ste theory of special creation. (ix) Vat are vestigial organs? SECTION - II Attempt any THREE questions. Each question carries 08 marks. 5. (a) Wr a note on adaptations in plants to low and high temperature. (b) Whis predation? Write significance of predation. 04 6. (a) Whare turgor movements? Describe their types. 04 (b) Desibe the replication process of DNA. 04 7. (a) Whare neurons? Explain their different types with the help of diagrams. 04 (b) Der acid rains. Describe their adverse effects. 04 8. (a) Wria note on test tube babies and identical twins. 04 (b) De is and explain multiple alleles with the help of example. 04 9. (a) Dísis any four factors affecting gene frequency. 04 (b) Wra note on regeneration. 04