BIOLOGY Part-II	Paper Code	Roll No. of the Student	
Time: 20 Minutes Marks: 18 Multiple Choice Questions 01 Mark for each	9	Serial No. Of the Answer Book	
	SECTION-	<u>A</u>	

Note:		3 9 9 9 9
1) Attempting all MCQs	is compulsory. This paper along with the OMR she	et must be returned to the superintend
, , , , , , , , , , , , , , , , , , , ,		

If more than one circle in the OMR sheet is filled then no credit will be given to such answer. I.i. The number of linkage group in man is. 92 46 ii. A chromosome with equal length of its arms is called. Metacentric Acrocentric Sub-metacentric (A) Telocentric B iii. Which type of strugle is more strong & severe. Both A & B Extra specific B Inter specific A Intra specific iv. Among the following resources all are non-renewable except. Water (D) Gold 0 (B) Cool Oil v. The gene of choice is joined with the sticky ends produced after cutting the plasmid with the help of another secial enzyme known as. Restriction endonuclease Reverse transcriptase DNA polymerase A DNA ligase vi. Liger is hybrid breed of. Leopard & Tiger Leopard & Lion (0) (B) Lion & Tiger A Cheeta & lion Among twelve pairs of cerebral nerves, the number of sensory nerves are. vii. ⑤ 5 pairs 4 pairs 0 3 pairs 2 pairs ml of glomerular filtrate per minute. In human ultra-filtration produces about viii. 135 130 0 125 120 ix. Skull of human is made up of bones. 28 x. Carbon dioxide diffuses in the blood & combine with water to form Carbonic anhydrase Malic acid (c) (B) Carbonic acid Acetic Acid The problem related with over use of tomato is. Hypergalacemia Hyperoxaluria 0 Hyperuricemia B Hypercalcemia In skeletal muscle calcium facilitates contraction by biding actin to. xii. Cytosin Troponin Myosin (B) (A) Tropomycin All can affect the velocity of impulse in axon fiber except. xiii. Schwan cell Diameter B Length Myolin sheath Glycosuria is related to defeciency of which harmone? Epinephrin Insulin Glucogan (B) (A) Thyroxin Altruisic behaviour is adopted by animal. All these are correct 0 Spider monkey Honeybees (A) Cat (B) Spermatogenesis at a normal rate will be controlled by sertoli cell producing. XVI. Hayalorunidase Vericulase Prostaglandin B (A) Inhibin xvii. In human embryology which organ is not of ectodermal origin. Skin 0 Eyes Nervous System (B) xviii. Gene located on the same chromosome that tend to inherited together in genetic crosses are.

(D) All these are correct

Linked genes

0

Linkage group

Polygenes

0 BILOGY Part-II

Note: Time allowed for section B and C is 2 hours and 40 minutes.

SECTION "B"

Marks: 40

- II. Attempt any Ten Parts out of the following. Each Part carries equal marks.
 - i. List two differences between Haemoglobin & Myoglobin.
 - ii. What is the benefit of Extracorporeal shock wave lithotripsy (ESWL) over per cutaneous nephro lithotripsy (PCNL).
 - iii. What is Spondylosis?
 - iv. What is Alzheimer's disease. Write risk factors & symptoms of this disease.
 - v. What is nerve impulse. How action membrane potential arises.
 - vi. Why anterior pituitary gland is called master gland.
 - vii. Differentiate between the terms miscarriage & abortion.
 - viii. Write about genetic abnormalities related to spontaneous abortions.
 - ix. When F_1 female drosophila heterozygous for white eyes(x^Rx^W) is crossed with white eye male (x^wy). What will be the percent ratio for this trait in both sexes.
 - x. Mention only two parallel behaviour of genes & chromosomes during meiosis.
 - xi. How variation play role in natural selection of an organism.
 - xii. Differentiate between Nitrification & Denitrification.
 - xiii. What are probes. How it can be uses in diagnosis of diseases caused by protozoa & Helminthes.

SECTION "C"

Marks: 27

Note: Attempt any Three questions of the following. Each question carries equal Marks.

- III. Explain in detail the Darwin's theory of evolution.
- IV. Explain the procedure of peritoneal & haemodialysis.
- V. Explain the role of harmones secreted by anterior lobe of pituitary gland.
- VI. Write brief note on the following.
 - i. Down Syndrome
 - ii. Incomplete dominance