

Sig. of Supdt.

KT-XII-1701
Biology (Part – II)
Fresh/Reappear

P-283
Roll No.

Code - M

Fic. No.

Time allowed: 3 Hrs

Biology (Part – II)
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Marks: 85

Note: There are three sections of the paper, A, B & C. Attempt Section – A on the same paper and return it to the Superintendent within the given time. No marks will be awarded for cutting, erasing or over writing. Mobile phone etc. are not allowed in the examination hall.

Time: 20 Mins

Section "A"

Marks: 18

Q.1 Write the correct option i.e. A, B, C or D in the empty box provided opposite each part.

- i. How many papillae are present on surface of tongue? B
A. 2 B. 4 C. 6 D. 8
- ii. Haemoglobin is a A
A. Metallo protein B. Nucleoprotein C. Glycoprotein D. Lipoprotein.
- iii. Urine formation occur in C
A. Two step B. Four step C. Three step D. Six step
- iv. Replication origin in eukaryotic cell are C
A. 21 B. 4 C. Many D. Few
- v. In male LH stimulates A
A. Leyden cell B. Sertolic cell C. Follicular cell D. Mast cell
- vi. Which is multinucleated cell? C
A. Osteoblast B. Osteocyte C. Osteoelast D. Chondrocyte
- vii. The mid section of a bar d called A
A. Mline B. Zline C. I band D H-zone
- viii. Adrenal medulla basically consist of modified C
A. Sympathetic neuron B. Parasympathetic neuron C. Somatic neuron D. None
- ix. Nervous system is derived of B
A. Mesoderm B. Ectoderm C. Endoderm D. Epiderm
- x. Trail and error learning error has no role in A
A. Insight B. Imprinting C. Operant D. Habituation
- xi. The turner syndrome is represented as D
A. 44 + xy B. 44 + xx C. 45 + x D. 44 + x
- xii. Which one is responsible for releasing neurotransmitter? A
A. Ca B. K C. Na D. Mg
- xiii. The average glomerator filtration rate per minute is B
A. 124ml B. 125ml C. 180L D. 105L
- xiv. Mechanoreceptor detect change in D
A. Pressure B. Position C. Touch D. All
- xv. Thigh consist of D
A. Radial B. Ulna C. Tibia D. Femur
- xvi. The stop codon is also called B
A. Sense codon B. Non sense codon C. Anticodon D. All
- xvii. The first vaccine is made from C
A. Chickenpox B. Tetanus C. Cowpox liquid D. Measle virus
- xviii. Sickle cell anemia is an example of D
A. Aberration B. Promoter mutation C. Fixation D. Point mutation

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Section "B"

Marks: 40

Q.2 Attempt any TEN parts. Each part carries equal marks.

- i. Briefly discuss structure of chromosome.
- ii. Write arthritis and its symptoms.
- iii. List down the effect of hyperthyroidism.
- iv. Write role of microbes in waste treatment?
- v. Describe any two evidences of evolution.
- vi. What is denitrification?
- vii. Discuss synaps and its types.
- viii. Name cranial and facial bone?
- ix. Write note on ureter and urinary bladder?
- x. Discuss about inhibin hormone.
- xi. Define stroke and its symptoms.
- xii. Write method of gene regulation.
- xiii. Write function of insulin.

Section "C"

Marks: 27

Note: Answer any THREE questions. Each question carries equal marks.

Q.3.a. Discuss the process of translation?

b. Function of T_3 and T_4 hormones.

Q.4 What is vaccine? Describe its mode of action and various types.

Q.5 Explain about axial skeleton.

Q.6 Write note on any two of the following.

i. Various type of muscles.

ii. Tuberculosis

iii. Down's syndrome