



K17U 1722

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2017
(2014 Admn. Onwards)
CORE COURSE IN ZOOLOGY
5B07 ZLG : Cell Biology and Immunology

Time : 3 Hours

Max. Marks : 40

PART – A

Cytology

I. Answer any one :

(1×8=8)

- 1) Explain the structure and functions of Ribosomes and Lysosomes.
- 2) Describe the process of Spermatogenesis and Oogenesis.

II. Answer any one :

(1×8=8)

- 3) Explain on Cancer.
- 4) Explain the different types of Connective tissue cells.

III. Answer any two :

(2×3=6)

- 5) Note on polytene chromosomes.
- 6) Explain Cell Cycle.
- 7) Explain Parthenogenesis.
- 8) Note on mitochondria.

IV. Answer any six :

(6×1=6)

- 9) Stem cells.
- 10) Mycoplasma.
- 11) Viroids.
- 12) Cell theory.



13) Glyoxysomes.

14) Tight junctions.

15) Fixatives.

16) Metastasis.

V. 17) Answer all the following :

(4x1=4)

a) Endosymbiont hypothesis was related to

- | | |
|----------------|-------------------|
| 1) Chloroplast | 2) Mitochondria |
| 3) Ribosome | 4) Both 1) and 2) |

b) Which one of the following cell secrete histamine ?

- | | |
|----------------|----------------|
| 1) Mast Cell | 2) Fibroblast |
| 3) Plasma cell | 4) Macrophages |

c) Which one of the following is a function of Lysosome ?

- | | |
|------------------|----------------------|
| 1) Cell division | 2) Protein synthesis |
| 3) Heterophagy | 4) Fat storage |

d) The basic amino acid associated with histones is

- | | |
|-------------|-------------------|
| 1) Glycine | 2) Lysine |
| 3) Arginine | 4) Both 2) and 3) |

PART - B

Immunology

VI. Answer any two of the following :

(2x2=4)

18) Structure of Antibody.

19) Note on opsonisation.

20) Allograft rejection.

21) Major Histocompatibility Complex.

VII. Answer any one of the following :

(1x4=4)

22) Explain on hypersensitivity.

23) Explain on the type of immunity.