

Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS – OBE – Regular) Examination, April 2022
(2019 Admission)
CORE COURSE IN ZOOLOGY
6B09 ZLG : Cell Biology, Immunology and Microbiology**

Time : 3 Hours

Max. Marks : 40

- I. Essay questions (**Each** question carries **8** marks). Answer **any two**. (8×2=16)
- 1) Write in detail about Giant Chromosomes.
 - 2) Describe the classification of Bacteria.
 - 3) Explain the structure, polymorphism and functions of lysosomes.
 - 4) Write an essay on antigen-antibody reactions.
- II. Short essay questions (**Each** question carries **4** marks). Answer **any two**. (4×2=8)
- 5) Write a note on cytoskeleton.
 - 6) Describe the fluid mosaic model of plasma membrane.
 - 7) Explain the structure and functions of antibody.
- III. Short answer questions (**Each** question carries **2** marks). Answer **any six**. (2×6=12)
- 8) Distinguish between heterochromatin and euchromatin.
 - 9) State the cell theory.
 - 10) What is metastasis ?
 - 11) Comment on electron transport chain.
 - 12) Give a note on acquired immunity.
 - 13) Write the symptoms of chicken pox.
 - 14) Comment on synaptonemal complex.
 - 15) What is ELISA ?

P.T.O.



- IV. Multiple choice questions (**Each** question carries **0.5** marks). Answer **all**. (0.5×8=4)
- 16) Type IV hypersensitivity is often referred to as
 - a) Immediate
 - b) Delayed
 - c) Anaphylactic
 - d) Anergic
 - 17) Sodium and potassium pumps are examples of
 - a) Plasmolysis
 - b) Passive transport
 - c) Active transport
 - d) Osmosis
 - 18) Major immunoglobulin in secretions such as saliva, tears and breast milk.
 - a) IgA
 - b) IgM
 - c) IgG
 - d) IgE
 - 19) In cell cycle DNA replication takes place in
 - a) M-phase
 - b) S-phase
 - c) G1-phase
 - d) G2-phase
 - 20) What is the key role of fibroblasts ?
 - a) Protecting the cell
 - b) Producing extra cellular matrix
 - c) Producing lytic enzymes
 - d) Providing structure
 - 21) Which of the following cell organelles contains RNA ?
 - a) Mitochondria
 - b) Plastids
 - c) Lysosomes
 - d) Ribosomes
 - 22) In humans, the causative of ringworm is
 - a) Bacteria
 - b) Viruses
 - c) Nematodes
 - d) Fungi
 - 23) Which of the following can be used as biocontrol agent in the treatment of plant disease ?
 - a) Lactobacillus
 - b) Trichoderma
 - c) Chlorella
 - d) Anabaena