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SUBJECT CODE NO: SS-6684
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Zoology) (Sem-III)
Examination May / June - 2023
Immunobiology ZOO-302

[Time: 03:00 Hours]

[Max. Marks: 80]

Please check whether you have got the right question paper.

N. B.

- 1) Question paper is divided in PART - A and PART – B.
- 2) PART - A is compulsory.
- 3) Attempt any five questions from the PART - B.
- 4) Draw well labelled diagrams wherever necessary.

PART - A

Q.1 Attempt the following multiple - choice questions -

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1. Which of the following systems helps to protect our bodies from disease - causing microbes?
 - a) Digestive system b) Respiratory system c) Immune system d) Excretory system
2. Which of the following cells of the immune system do not perform phagocytosis?
 - a) Macrophage b) Neutrophil c) Eosinophil d) Basophil
3. Pattern recognition receptors (PRR) include :-
 - a) LPS b) PAMPs c) Lipoteichoic acid d) Lectin – like molecules
4. B - cells and T- cells are involved in -----
 - a) Active immunity b) Acquired immunity c) Innate immunity d) Passive immunity
5. ----- Protects us from bacteria that enter our bodies.
 - a) Haemoglobin b) White blood cells c) platelets d) Red blood cells
6. Humoral immunity is controlled by which of the following cell?
 - a) B- cells b) Mast cells c) T- cells d) Both T & B cells
7. Which of the following cells mediates the cell- mediated immunity?
 - a) T- cells b) Thrombocytes c) B - cells d) Leukamia
8. Which of the following antibodies gives a primary immune system?
 - a) IgG b)IgM c) IgA d) IgE
9. Interferons are -----
 - a) Cytokine barriers b) physical barriers c) cellular barriers d) Physiological barriers
10. Name the first cell which is recruited at the place of infection.
 - a) NK cells b) Basophils c) Neutrophils d) macrophages

PART – B (Attempt any Five)

- Q.2 Describe in detail the structure and functions of antibodies. 12
- Q.3 What are the positive and negative selection of T - cells. 12
- Q.4 Write the various types of immunity with examples. 12
- Q.5 Explain the cells and molecules involved in host defense mechanism. 12
- Q.6 Give an account an concept of B - cells and Toll - like Receptors. 12
- Q.7 Describe the major histocompatibility complex and its function. 12
- Q.8 Write a note on following: (any three) 12
- a) Antigen receptor signalling.
 - b) G. protein coupled receptors.
 - c) Auto immune disease.
 - d) Myeloid linkage.