



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 4th Semester Supplementary Examination, 2021

ZOOACOR10T-ZOOLOGY (CC10)

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.
All symbols are of usual significance.*

1. Answer any **eight** questions from the following: 2×8 = 16
- (a) What is Active Immunity?
 - (b) What is paratope and epitope?
 - (c) What is an immunogen?
 - (d) What is Chemokine? Mention its role in immune regulation.
 - (e) Which antibody can cross the placenta?
 - (f) What do you mean by cell mediated immunity? Differentiate with humoral immunity.
 - (g) What are allergen and pathogen?
 - (h) What do you mean by ADCC?
 - (i) Differentiate between T_H cells and T_C cells.
 - (j) What do you mean by hypersensitivity reaction?
 - (k) Differentiate between primary and secondary lymphoid organs.
 - (l) Compare between antigen and immunogen.
 - (m) What is APC? Give examples.
 - (n) What is opsonization?
 - (o) What do you mean by inflammatory barriers?
2. Answer any **three** questions from the following: 3×3 = 9
- (a) Write a note on agglutination reaction. 3
 - (b) Write the immunological significance of Interferon, Bursa of Fabricius and Phagocytosis. 1+1+1
 - (c) Explain the process of monoclonal antibody production. 3
 - (d) Explain the structure of T-cell receptors. 3
 - (e) How do tumour cells escape immune system attack? 3

- (f) Write the full form of AIDS. Why is it so called? What is autoimmune disorder? 2+1
3. Answer any *three* questions from the following: 5×3 = 15
- (a) What is complement activation? Describe alternative pathway of complement activation. 1+4
- (b) Define mAb. Describe the production of mAb. 2+3
- (c) Write a short note on RIA. 5
- (d) What is inflammation? Explain. 2+3
- (e) Explain different types of Malaria. Mention its treatment procedure. 4+1
- (f) What do you mean by herd immunity? Write a note on DNA vaccine. 2+3

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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