

**U.G. 4th Semester Examination - 2022****ZOOLOGY****[HONOURS]****Course Code : BZOCCCHC 403****Course Title : Immunology**

Full Marks : 30

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **ten** questions from the following:

1×10=10

- a) What is diapedesis?
- b) State the role of histamine.
- c) State the significance of hybridoma technology.
- d) What do you mean by class switching of antibody?
- e) What is the role of perforin?
- f) Which subclass of IgG cannot pass the placenta?

- g) What is the function of mast cell?
- h) Why adjuvants are added to vaccines?
- i) What is interferon?
- j) What is idiotype?
- k) What do you mean by monoclonal antibody?
- l) Give example of type II hypersensitivity.
- m) What is the function of CRP?
- n) Define autoimmunity.
- o) What do you mean by complementarity determining region?

2. Answer any **five** questions from the following:

2×5=10

- a) What is acute phase protein? Give example.
- b) What is colostrum?
- c) Differentiate Type I and Type II MHC.
- d) “All antigens are not immunogens”—Clarify.
- e) What are ITAMS?
- f) What is the significance of secretory molecule in IgA?
- g) What is the basic difference between active and passive immunity?

h) State the properties of B cell epitopes.

3. Answer any **two** questions from the following:

5×2=10

a) How antigens can be measured in Sandwich ELISA? State the significance of RIA. 3+2

b) Write a note on coordination on humoral and cell-mediated immunity. 5

c) Explain the response of immune system to tuberculosis bacteria. Name two drugs used for the treatment of this disease. 4+1

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