

D 9083

(Pages : 2)

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2010

General Biotechnology

GBT 214—IMMUNOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any two questions.
Each question carries 10 marks.*

1. "Macrophage plays a major role in defense mechanism of human." Substantiate.
2. What are complements ? How do they help in defense ?
3. Write an account on **Humoral** immune response.

(2 x 10 = 20 marks)

Section B

*Answer any **ten** questions.
Each question carries 5 marks.*

4. "Recognition of self and discrimination of **nonself**"—What do you mean by this ?
5. What is the role of natural killer cells ?
6. What do **immunopotential** means ?
7. What are Lymph nodes ? When do they present ? What is its role ? Explain.
8. How do B cell develop ? Where do they originate ?
9. Define allergen, antigen, **immunogen haptin** and super antigen.
10. Draw a labelled diagram of **MHC I** and **II** and explain their role.
11. What are monoclonal and **polyclonal** antibodies ? Add a note on their merits and demerits.
12. What are **toxoids** ? How will prepare ? Explain with example.
13. What do you mean by **SRID** ? Explain. Add a note on its applications.
14. Outline the role of spleen in immune system.
15. What is the contribution made by Bernet and **Melavar** ?

(10 x 5 = 50 marks)

Turn over

Section C

*Answer all questions.
Each question carries **2** marks.*

16. Define precipitation.
17. What are the advantages of **ELISA** over **RIA** and IF ?
18. What are CD means ? Give four examples and their location.
19. What are stem cells ? What is its significance ?
20. Can we operate **HLA** and **H₂** ?

(5 x 2 = 10 marks'