

D 50837

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Name

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION
NOVEMBER 2013**

(UG-CCSS)

Biotechnology [Core Course]

BT 5B 02 – IMMUNOLOGY AND IMMUNOTECHNOLOGY

Time : Three Hours

Maximum : 30 Weightage

I. Objective Type Questions. Answer all *twelve* questions :

1. Foot and mouth disease is caused by :

- (a) Virus. (b) Bacteria.
(c) Fungi. (d) Protozoa.

2. Which is true for Interferon?

- (a) Stimulate wound healing. (b) Improves fertility.
(c) Used in cancer treatment. (d) Used in treatment of haemophilic.

3. **Pyrogens** are chemicals released by :

- (a) Pathogens. (b) Antibodies.
(c) Red blood cells. (d) White blood cells.

4. A person without thymus will not be able to :

- (a) Develop an inflammatory response.
(b) Reject a tissue transplant.
(c) Produce antibodies.
(d) Fight cold and cough.

5. **BCG** vaccination is used for :

- (a) Cholera. (b) Polio.
(c) ~~Diphtheria~~. (d) Tuberculosis.

6. Repeated attacks of rheumatic fever generally affects the :

- (a) Brain cells. (b) Bone tissue.
(c) Heart valves. (d) Kidney.

Turn over

7. Identify the transfusion that would lead to clotting due to incompatibility :
- (a) A given to AB. (b) O given to A.
(c) AB given to A. (d) B given to AB
8. High eosinophil count may indicate :
- (a) Bacterial infection. (b) Allergic reaction.
(c) Vitamin B₁₂ deficiency. (d) Tuberculosis.
9. Hyposecretion of the adrenal cortex causes :
- (a) Addison's disease. (b) Cretinism.
(c) Cushing's disease. (d) Goitre.
10. Emphysema is a disease of the :
- (a) Larynx. (b) Lungs.
(c) Mouth. (d) Pharynx.
11. Which of the following cells secrete heparin?
- (a) Fibroblasts. (b) Mast cells.
(c) Plasma cells. (d) Histiocytes.
12. Which of the following appears first in the circulation on antigenic stimulation?
- (a) IgM. (b) IgG.
(c) IgD. (d) IgE.

(12 x $\frac{1}{4}$ = 3 weightage)

II. Short Answer Type Questions. Answer all *nine* questions :

13. Natural killer cells.
14. Isotype.
15. Hapten.
16. Macrophages.
17. Mast Cells.
18. IgG.
19. Urticaria.
20. Dendritic cells.
21. Interferons.

(9 x 1 = 9 weightage)

III. Short Essay or Paragraph Questions. Answer any *five* questions :

22. Prausnitz-Kuster reaction.
23. Grave's disease.
24. Erythroblastosis fetalis.
25. Immunoglobulin super family.
26. Synthetic peptides.
27. Mono clonal antibodies.
28. Multivalent subunit vaccine.

(5 x 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions out of three :

29. Cells of the immune system.
30. Type-I-IgE mediated hypersensitivity.
31. Systemic autoimmune disease.

(2 x 4 = 8 weightage)