

D 30697

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Name.

Reg. No. ....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, OCTOBER 2012**

(CCSS)

**BT 5B 02—IMMUNOLOGY AND IMMUNOTECHNOLOGY**

Time : three Hours

Maximum : 30 Weightage

I. Objective type questions. Answer *all* questions :

A True or False :

- 1 Birds are immune to tetanus.
- 2 **Protegrins** are not antimicrobial peptides in mammalian systems.
- 3 Blood groups 0 will have antibodies A and B and no antigens.
- 4 **Lysozymes** and **lactog=ferrins** act as **bacteriocidal** substances.
- 5 **Chemokines** are released by macrophages in response to infection.
- 6 Natural killer cells are null cells.

B Name the following :-

- 7 Commonly used killed bacterial vaccine.
- 8 These cells mediate **humoral** immune response.
- 9 Water in oil emulsion containing **Ag** in aqueous phase and killed **ubercle** bacilli in oily phase.
- 10 **Immunoglobulin** that can readily cross placental barrier.
- 11 Bacterial tube agglutination test used for diagnosis for typhoid fever.
- 12 Cells producing histamine.

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

II. Short answer type questions. Answer any *nine* questions :

- 13 **IgD**.
- 14 **Coomb's** test.
- 15 **Haemagglutination**.
- 16 Hay fever.
- 17 Natural killer cells.

Turn over

18 Hashimoto's thyroiditis.

19 Active immunization.

20 DPT.

21 Immunodeficiency.

(9 x 1 = 9 weightage)

III. Short essay *or* paragraph questions. Answer any *five* questions :

22 Complement fixation test.

23 ELISA.

24 Western blotting.

25 Classification of grafts.

26 Tumor antigens.

27 Viral vaccines.

28 Multiple sclerosis and Rheumatoid arthritis.

(5 x 2 = 10 weightage)

W. Essay questions. Answer any *two* out of 3 :

29 Antibody mediated cytotoxic hypersensitivity.

30 Blood grouping.

31 Monoclonal antibodies.

(2 x 4 = 8 weightage)