

Total No. of Questions :4]

SEAT No. :

P705

[Total No. of Pages :2

[5315]-243

S.Y.B.Sc.

BIOTECHNOLOGY (Vocational-II)

Voc. Biotech-222 : Immunology and Medical Microbiology

(2013 Pattern) (Semester-II) (Paper - II)

Time : 2 Hours]

[Max. Marks : 40

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) All questions carry equal marks.*

Q1) Answer each of the following in 1-2 lines:

[10]

- a) What is immunity?
- b) What is the difference between immunogenicity and antigenicity?
- c) Name the primary lymphoid organs.
- d) What are haptens?
- e) Name the predominant antibody type produced in primary immune response.
- f) What are toxoids?
- g) Enlist any two autoimmune diseases.
- h) What is the role of mast cells in hypersensitivity?
- i) Give the etiological agent of syphilis?
- j) What is dermatomycosis?

Q2) Write short note on any two of the following.

[10]

- a) Ig A
- b) Meningitis
- c) Primary immune response.

P.T.O.

Q3) Attempt any two of the following. **[10]**

- a) Describe type I hypersensitivity.
- b) Explain any two types of vaccines in detail.
- c) Describe polio disease in detail.

Q4) Explain humoral immune response in detail. **[10]**

OR

Describe typhoid with respect to etiological agent, characterization, morphology, preventive measures and control.

