

Total No. of Questions : 8]

SEAT No. :

P1445

[5124]-302

[Total No. of Pages : 2

M.Sc.

BIOCHEMISTRY

**BCH - 371: Medical Biochemistry and Immunology
(2013 Pattern) (Credit System) (Semester - III)**

Time : 3 Hours]

[Max. Marks : 50

Instruction to the candidates:

- 1) Answer any 2 question from Question No. 1-3 and 5-7.
- 2) Question No. 4 and 8 are compulsory.
- 3) Answer to each section are written to be on separate answer sheets.

SECTION - I

Medical Biochemistry

Q1) Answer the following.

- a) Define drugs and antibiotics. [2]
- b) What is role of viruses in carcinogenesis. [4]
- c) Give the pathophysiology of nickle and amonia. [4]

Q2) Answer the following:

- a) Give any two basic approach by WHO for control of cancer. [2]
- b) Describe any one mechanism of resistance to antibiotics. [5]
- c) Describe molecular basis of hemoglobinopathies. [3]

Q3) Attempt the following:

- a) Give the structure and function of lysosome in animal cell. [5]
- b) Explain extrinsic apoplosis. [2]
- c) Write a note on my cohacterium. [3]

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Q4) Answer any one of the following:

- a) Explain role of viruses as carcinogen in causing cancer. [5]
- b) Give the composition of CSF and their biochemical significance. [5]

SECTION - II

Immunology

Q5) Answer the following:

- a) Explain Rochet immuno electrophoresis. [2]
- b) Explain inivate immunity in detail. [4]
- c) Explain types of Immunoglobulin classes. [4]

Q6) Attempt the following:

- a) Give the developmental stages of T cells. [3]
- b) Explain the role of different cells involved in cell mediated immunity.[3]
- c) How do vaccine work? Why do we cannot have vaccine for each and every disease. [4]

Q7) Answer the following:

- a) What are interferom? Explain its role. [3]
- b) Write a note on blood group substances. [3]
- c) Give the production of monoclonal Abs. [4]

Q8) Answer any one of the following.

- a) List out the types of hyper sensitivity reaction and give their features.[5]
- b) What are Immuno deficiency diseases? Discuss the features of one such disease. [5]

