Seat No.

QP-1011

Total No. of Pages : 2

OCT_NOV_2024 WINTER EXAMINATION

Bachelor of Science

Sub. Name: Microbiology Paper X

Sub. Code: 97085

Day and Date: NOVEMBER ,27-11-2024 **Total Marks: 40**

Time: 10:30 AM To 12:00 PM

Instructions: 1. All questions are compulsory
2. Draw neat labelled diagrams wherever necessary
3. Figures to the right indicate full marks

Q1) Select and rewrite the correct alternatives from among those given below **[8]**

i. **Myasthenia Gravis' is caused by the production of autoantibodies against the.....**
   A. Myelin basic proteins
   B. TSH receptor
   C. Acetylcholine receptor
   D. P receptor

ii. **---------- activates the production of Type I interferon**
   A. Capsid protein
   B. Double-stranded RNA
   C. Double-stranded DNA
   D. Capsomers

iii. **Active immunization is done by using ----------**
   A. Toxoid
   B. Endotoxins
   C. Toxin
   D. Exotoxin

iv. **---------- is a congenital birth defect of humans in thymus**
   A. Down syndrome
   B. DiGeorge's syndrome
   C. Abadonend child syndrome
   D. Acute retroviral syndrome

v. **-------- class of MHC molecules produced by endogenous antigens**
   A. II
   B. I
   C. I &II
   D. III

vi. **Natural Killer cell are ----------**

A. Incresed by immunisation
B. Cytotoxic T cell
C. B cell
D. Able to kill tumor & virus infected cell

vii. **The clonal selection theory was proposed by ----------**

A. Burnet
B. Jenner
C. Ehrlich
D. Sanger

viii. **All blood cells arise from a type of cell called the ----------**

A. Hematopoietic stem cell
B. Phagocytic cell
C. RBC
D. Dendritic cell

Q2) **Long Answers type questions (Attempt any two)** **[16]**

a. Production & Application of Monoclonal Antibodies

b. Describe Properties, types, inducers and Mechanism of action on of Interferon

c. What is Hypersensitivity? Discuss in brief Type IV- Delayed type hypersensitivity

Q3) Write Short notes on any four of the following **[16]**

a. Characteristics of Hematopoietic stem cells

b. Structure and functions of B cell

c. Gell and Coombs classification

d. Type II Hypersensitivity

e. Complement activation by alternate pathway

f. Structure and functions of dendritic cells

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