

S.Y.B.SC. SEM – IV (CBCS - 2016 COURSE) : SUMMER - 2018
SUBJECT: MICROBIOLOGY: PRINCIPLES OF DISEASE, EPIDEMIOLOGY & IMMUNOLOGY

Day: **Thursday**
Date: **19/04/2018**

S-2018-0666

Time: **11.00 A.M. TO 02.00 PM**
Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Attempt **ANY TWO** of the following: **(12)**

- a) Discuss the structure and functions of Ig G.
- b) Giving suitable examples, explain waterborne transmission of diseases.
- c) With the help of neat and labeled diagram, discuss cytology and functions of 'Eosinophil'.

Q.2 Attempt **ANY TWO** of the following: **(12)**

- a) Define the term 'Infection' and discuss types of 'infectious diseases'.
- b) Giving suitable examples, explain 'Arthropod borne transmission of diseases'.
- c) What are 'Natural killer cells'? Give their significance.

Q.3 Attempt **ANY TWO** of the following: **(12)**

- a) With the help of suitable diagram, discuss the structure and function of Ig M.
- b) What is 'infection' and 'intoxication'? Discuss any one example of food borne infection and Food borne intoxication.
- c) Define the term 'Epitope' and explain Continuous and Discontinuous epitopes.

Q.4 Write short notes on **ANY THREE** of the following: **(12)**

- a) Ig D
- b) Macrophages
- c) Active immunity
- d) Adjuvants

Q.5 Attempt **ANY FOUR** of the following: **(12)**

- a) What are haptens? Why those are called as 'incomplete antigens'?
- b) Enlist subclasses of Ig A and mention their respective heavy chain antigenic determinants.
- c) Define the terms 'Pathogenicity' and 'Virulence'.
- d) Explain the role of Ig E in the development of 'Anaphylaxis'.
- e) Enlist the types of cytoplasmic granules of 'Neutrophils'.

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