

**S.Y.B.SC. SEM – IV (2014 COURSE) : SUMMER - 2018**  
**SUBJECT: MICROBIOLOGY: PRINCIPLES OF DISEASE, EPIDEMIOLOGY & IMMUNOLOGY (MB-41)**

Day : **Friday**  
Date : **13/04/2018**

**S-2018-0721**

Time: **03.00 PM TO 05.00 PM**  
Max. Marks: 40

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**N. B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** Attempt **ANY TWO** of the following : **(10)**
- a) Explain 'Analytical Epidemiology'.
  - b) Describe the cytology and functions of 'Neutrophil'.
  - c) Giving suitable examples discuss the effect of 'Number of epitopes' on antigenicity.

- Q.2** Attempt **ANY TWO** of the following : **(10)**
- a) With suitable examples, explain food borne transmission of the diseases.
  - b) Discuss the types of infectious diseases.
  - c) Explain the mechanism of immune boosting by 'Adjuvants'.

- Q.3** Write short notes on **ANY TWO** of the following : **(10)**
- a) Ig D
  - b) Carrier proteins
  - c) Passive immunity

- Q.4** Attempt **ANY FIVE** of the following : **(10)**
- a) Mention the normal flora of oral cavity in human being.
  - b) Give any two examples of diseases transmitted through arthropods.
  - c) Write the significance of Ig E.
  - d) Define the term 'Active immunity'.
  - e) Mention examples of oxidizing radicals generated during phagocytosis process.
  - f) What is 'Herd immunity'?
  - g) Define the term 'Infection'.

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