

**S.Y.B.SC. SEM – IV (2014 Course) : SUMMER - 2019**  
**SUBJECT: MICROBIOLOGY: PRINCIPLES OF DISEASE, EPIDEMIOLOGY & IMMUNOLOGY (MB-41)**

Day : Tuesday  
Date : 07/05/2019

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

**S-2019-0980**

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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) Comment on 'Measurements in Epidemiology'.
- b) Describe the cytology and functions of 'Eosinophil'.
- c) Giving suitable examples, discuss the effect of molecular weight on antigenicity.

**Q.2** Attempt **ANY TWO** of the following : **(10)**

- a) With suitable examples explain waterborne transmission of the diseases.
- b) Explain the distribution and occurrence of normal flora.
- c) Define the term 'Adjuvant' and explain its significance.

**Q.3** Write short notes on **ANY TWO** of the following : **(10)**

- a) Ig G
- b) Haptens
- c) Innate immunity

**Q.4** Attempt **ANY FIVE** of the following : **(10)**

- a) What are 'Droplets' and 'Droplet nuclei'?
- b) Mention the difference between 'Pathogenicity' and 'Virulence'.
- c) What is CDR of an antibody molecule?
- d) What are conformational epitopes?
- e) Give any two examples of diseases transmitted through direct contact.
- f) Mention the function of IgA.
- g) What is 'Placebo' and 'Incidence'?

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