

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : WINTER - 2018

SUBJECT: MICROBIOLOGY: MEDICAL MICROBIOLOGY

Day : Wednesday
Date : 10/10/2018

Time: 03.00 P.M. To 06.00 P.M
Max Marks : 60

W-2018-0738

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) What is apoptosis? Explain the apoptosis of CD₄ cells following HIV infection.
 - b) Describe etiology, symptoms and mode of transmission of 'Ranikhet'.
 - c) Describe antigenic properties of polio virus and enlist the symptoms of poliomyelitis.
- Q.2** Attempt **ANY TWO** of the following: (12)
- a) Describe toxic activities of '*Shigella dysenteriae* Type1'.
 - b) Comment on the etiology and symptoms of 'Malaria'.
 - c) What are reactive oxygen species (ROS)? Explain the role of P- 450 enzymes.
- Q.3** Attempt **ANY TWO** of the following: (12)
- a) Discuss symptoms and mode of transmission of 'Japanese Encephalitis'.
 - b) Explain ELISA test for diagnosis of HIV infection.
 - c) Describe the symptoms of 'Amoebiasis' and explain how the symptoms are different than that of 'Cholera'.
- Q.4** Write short notes on **ANY THREE** of the following : (12)
- a) Biological significance of ascorbic acid.
 - b) Brucellosis.
 - c) ICTV classification of HIV.
 - d) Gonorrhoea.
- Q.5** Attempt **ANY FOUR** of the following: (12)
- a) Enlist symptoms of AIDS.
 - b) Explain 'Pneumonic plague'.
 - c) Enlist causative agents of 'viral diarrhea' and mention the most common pediatric etiological agent of 'viral diarrhea'.
 - d) Explain the mode of transmission and symptoms of 'Typhoid'.
 - e) Discuss prophylaxis of poliomyelitis.
 - f) Give biological significance of tocopherols and carotenes.

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