

**T.Y.B.SC. SEM – V (2014 COURSE) : WINTER- 2017**  
**SUBJECT: MICROBIOLOGY: MEDICAL MICROBIOLOGY (MB-51)**

Day : Monday  
Date : 23/10/2017

Time: 12.00 NOON TO 02.00 PM  
Max. Marks: 40

**W-2017-0641**

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**N. B. :**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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**Q. 1** Attempt **ANY TWO** of the following: (10)

- a) Give ICTV classification of HIV and differentiate between HIV-1 and HIV-2.
- b) Describe different approaches used for 'Microbial Infection Imaging'.
- c) Discuss the pathogenesis of 'Poliomyelitis'.

**Q. 2** Discuss the '**Mode of transmission**' and '**Symptoms**' of **ANY TWO** human (10) diseases.

- a) Dengue
- b) Typhoid
- c) Rabies

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

- a) Mastitis
- b) Toxic activity of *Shigella dysenteriae* Type 1
- c) R.A.P.D.

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

- a) Give application of 'Fluorescence In Situ' (FISH) technique in Microbiology.
- b) Mention any two diagnostic methods for 'Transmissible Spongiform Encephalopathy Agents'.
- c) Enlist the enzymes participating apoptosis of CD4 cells following HIV infection.
- d) Give the symptoms of 'Brucellosis'.
- e) Name the causative agents of viral diarrhea.
- f) What is 'Pre Erythrocytic schizogony' of Malaria?
- g) Enlist the antigens of Polio virus.

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