

**BV (4)/ML & MDT-4.3/17 (MC)**

**2 0 1 7**

**MEDICAL LABORATORY AND MOLECULAR  
DIAGNOSTIC TECHNOLOGY**

Paper : S-4.3

**( Systemic Bacteriology, Mycology and Virology )**

Full Marks : 40

Time : 2 hours

*The figures in the margin indicate full marks  
for the questions*

1. Fill in the blanks of the following : 1×5=5
- (a) The specimen collected in case of measles is \_\_\_\_\_.
  - (b) Widal's test is a diagnostic test for \_\_\_\_\_.
  - (c) The study of fungi is called \_\_\_\_\_.
  - (d) The Venereal Disease Research Laboratory (VDRL) is a test to diagnose \_\_\_\_\_.
  - (e) If delay in transport of specimen is anticipated, specimens to be stored at \_\_\_\_\_ temperature.

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*( Turn Over )*

2. Write short notes on any five of the following : 2x5=10

- (a) HIV
- (b) Pox virus
- (c) Pseudomonas
- (d) Inclusion bodies
- (e) Niacin test
- (f) Mycotoxin
- (g) Antibiotics

3. Answer any three of the following questions : 5x3=15

- (a) What are the general properties of virus?
- (b) What are the difference between tuberculoid and lepromatous form of disease in *Mycobacterium leprae*?
- (c) Mention the laboratory diagnosis of *Clostridium tetani*.
- (d) Write a note on biochemical reactions of *Mycobacterium tuberculosis*.
- (e) Write a note on pathogenesis of *Neisseria gonorrhoeae*.

4. Answer any one of the following questions : 10

- (a) Discuss in detail on morphology, cultural characteristics, biochemical reactions, antigenic characteristic and pathogenesis of *Staphylococcus aureus*.
- (b) Write an essay on *Corynebacterium diphtheriae*.
- (c) Write a note on the classification and cultivation of viruses.

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