

BV (2)/ML & MDT-2.3/17 (MC)

2017

**MEDICAL LAB AND MOLECULAR
DIAGNOSTIC TECHNOLOGY**

Paper : S-2.3

**(Laboratory Techniques on Pathology
and Microbiology)**

Full Marks : 40

Time : 2 hours

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

1. Fill in the blanks : 1×5=5
- (a) Specimens before discarding need to be decontaminated with _____.
 - (b) Fluid portion of blood is _____.
 - (c) Swabs are sent to laboratory in _____ medium.
 - (d) Specimens that contain pathogens which are hazardous to laboratory staff should be labelled as _____.
 - (e) Infectious waste is discarded in _____ colour bag.

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(Turn Over)

2. Write short notes on any *three* of the following : 2×3=6

- (a) Flame sterilization
- (b) Petri plate and its uses
- (c) Inoculation loop
- (d) Disinfectant
- (e) Crystal violet

3. Answer any *two* of the following questions : 2×2=4

- (a) Why is alcohol used as an antiseptic?
- (b) What are the benefits of analyzers?
- (c) Why urine sample has to be adequately preserved?

4. Answer any *three* of the following questions : 5×3=15

- (a) Explain the steps of hand washing.
- (b) Describe the steps of biomedical waste management.
- (c) Write a note on chemical sterilization.
- (d) Write a note on preparation of media.
- (e) What are the advantages of continuous fermentation?

5. Answer any *one* of the following questions : 10

- (a) Define microscopy. Write in detail about various parts of compound microscope.
- (b) Write in detail about determination of haemoglobin by Sahli's method. Write down normal values of haemoglobin (Hb) in adult male and female.
- (c) Describe the gram staining method of bacteria in detail.
