

December—2020

(Held in 2021)

**MEDICAL LABORATORY TECHNICIAN/
MEDICAL LABORATORY AND MOLECULAR
DIAGNOSTIC TECHNOLOGY**

QP : Phlebotomy Technician

Paper : MLT-VC-1036

(Pathology—I)

Full Marks : 60

Time : 3 hours

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

- 1.** Fill in the blanks : 1×7=7
- (a) The process of collection of CSF is known as _____.
 - (b) Fouchet's test is to detect _____ in urine.
 - (c) The site of collection of capillary blood in infant is _____.
 - (d) Normal range of platelet is _____.

- (e) Function of your platelets can be accessed by _____ (test).
- (f) _____ is a preservative of urine.
- (g) _____ is the urinary crystal that looks like an envelope shape.

- 2.** Answer the following questions : 2×4=8

- (a) Write down the interpretation of ABO and Rh typing.
- (b) Mention some complications of venous blood collection.
- (c) List out some PPE.
- (d) Write down the principle of Hay's test.

- 3.** Answer in short any *three* of the following questions : 5×3=15

- (a) Write a note on haematocrit.
- (b) Explain about the principle, procedure and interpretation of Benedict's test.
- (c) Write a brief note on haemophilia.

(3)

- (d) How will you provide first aid for acid burn and alkali burn in the laboratory?
- (e) How will you perform haemoglobin estimation?

4. Answer any *three* of the following long answer-type questions : $10 \times 3 = 30$

- (a) How will you carry out semen analysis? 10
- (b) Define haemostasis. Mention the role of blood vessels and platelets in haemostasis. $1+4+5=10$
- (c) What are the sites of venous blood collection? Mention different types of colour coded Vacutainers along with their additives and uses in detail. $2+8=10$
- (d) How will you divide leucocytes? Explain in detail about the pathologic variations of leucocytes. $2+8=10$
- (e) How will you carry out physical examination of urine? Write down the normal components of urine. $5+5=10$

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