

BV(1/CBCS) MLT/MDT-VC-1036
(CC/MC/NC)

2019

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

Job Role : Phlebotomy Technician

Paper : MLT/MDT-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) Increased numbers of ____ are seen in allergic conditions.
 - (b) Sulphur powder sinks in the urine because of low ____ when bile salt is present in urine.
 - (c) ____ can give false positive results in heat and acetic acid test.
 - (d) A person with 'B blood group' can give blood to 'B blood group and ____ blood group'.
 - (e) Glycosuria is seen in ____.

(2)

(f) Arterial blood is collected from _____ artery.

(g) Normal range of WBC is _____.

2. Answer the following questions in brief: $2 \times 4 = 8$

(a) What are the different sites for venous blood collection?

(f) Write down the importance of semen analysis.

(c) What will you do if acid flashes on skin?

(d) Write down at least two X-linked recessive hereditary disorders of blood coagulation.

3. Answer any *three* of the following questions :

$5 \times 3 = 15$

(a) How will you perform total WBC count?

(b) Define anticoagulant. Name at least five anticoagulants along with the use in various tests. $1 + 4 = 5$

(c) Write a note on absolute values.

(d) What is the principle of ABO and Rh blood typing? How will you interpret ABO and Rh blood types? $2 + 3 = 5$

(e) Mention briefly about the role of platelets in coagulation.

(3)

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

(a) Name all the coagulation factors. Explain in detail about intrinsic and extrinsic pathways of blood coagulation. $5 + 5 = 10$

(b) Mention at least four preservatives of urine. How will you collect mid-stream urine? Write in detail about the macroscopic examination of urine. $2 + 2 + 6 = 10$

(c) Define anaemia. What is the normal reference range of haemoglobin? Write down the pathophysiologic classification of anaemia. $2 + 1 + 7 = 10$

(d) Write down the code of conduct for medical laboratory technology.

(e) What are formed elements? Write in detail about the erythrocytes and leucocytes. $1 + 9 = 10$
