

Total No. of printed pages = 4

3 (Sem-1)MLT

2015

MEDICAL LABORATORY TECHNICIAN

Paper : S- 1.3

(Clinical Pathology)

Full Marks : 40

Time : 2 hours

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

1. Fill in the blanks with appropriate word : $1 \times 5 = 5$
- (a) The ideal thickness a tissue section is _____
- (b) _____ is another term used for PCV.
- (c) EDTA can be used as _____ agent in Histopathology laboratory.
- (d) Normal reference range for Platelet is _____.

(2)

(e) Paraffin block without tissue is called _____

2. Answer any five of the following questions : $2 \times 5 = 10$

- (a) How will you prepare a thin blood smear for DLC?
- (b) What is reticulocyte? Which type of stain is used to stain reticulocyte?
- (c) Name any four dehydrating agent used in histopathology laboratory?
- (d) What do you mean by decalcification? Name at least two decalcifying agents used in histopathology laboratory?
- (e) What is blood? Write the components of blood?
- (f) Draw a microtome knife and label?
- (g) What do you mean by blood transfusion? Mention different types of cross matching performed before blood transfusion?

3. Answer any three of the following questions : $5 \times 3 = 15$

- (a) Write the principle, procedure, clinical significance and normal range of haemoglobin estimation?
- (b) Write the principle of tissue processing? Explain the details about tissue processing along with the chemicals involved?
- (c) Name some preservative of urine? Describe in details about physical examination of urine?
- (d) Explain the principle, procedure and result for Total Leucocyte Count (TLC) in details?
- (e) Write about sputum examination.

4. Answer any one of the following questions : $10 \times 1 = 10$

- (a) Define hemostasis? Name the clotting factors and explain the mechanism of clotting in details.
 $1+4+5=10$
- (b) Define fixation? Which is routinely used fixative? Write about mode of action of fixative? Classify fixative along with examples? $2+1+2+5=10$

- (c) Which is routinely used stain in histopathology laboratory? Write the principle, procedure and result of haematoxylon and Eosin stain in details?

1+9=10
