BV (4/CBCS) MLT-VC-4026/ MDT-VC-4026 (CC/MC/NC)

2021

MEDICAL LABORATORY TECHNICIAN

Job Role : Medical Laboratory Technician

Paper : MLT-VC-4026/MDT-VC-4026

(Biochemistry—IV)

Full Marks: 60

Time : 3 hours

The figures in the margin indicate full marks for the questions

- **1.** Fill in the blanks : $1 \times 7 = 7$
 - (a) _____ is a marker for prostatic carcinoma.
 - (b) Non-protein organic part of the enzyme is _____.
 - (c) _____ enzyme is elevated in alcoholism.
 - (d) _____ enzyme involves in the transfer of an amino group between aspartate and α -ketoacid.
 - (e) CK-MB isoenzyme is increased in____.

1-21/1090

(Turn Over)

(2)

- (f) Serum bilirubin is commonly measured by _____ method.
- (g) Enzymes that differ in amino acid sequence but catalyze the same reaction are _____.
- **2.** Answer the following questions : $2 \times 4 = 8$
 - (a) What is the site of synthesis of prothrombin? How is vitamin K related with prothrombin?
 - (b) How is thyroid hormone activity related to the serum cholesterol?
 - (c) How does kidney maintain acid-base balance?
 - (d) Why is bilirubin absent in urine even though blood bilirubin is high in prehepatic jaundice?
- **3.** Answer any *three* of the following questions : $5 \times 3=15$
 - (a) Write a brief note on the enzymes related to myocardial infarction.
 - (b) Explain briefly about the formation of gastric HCL.
 - (c) Classify liver function tests (LFTs). Describe tests based on excretory and synthetic function of liver.

1-21**/1090**

(Continued)

(3)

- (d) Is there any relation between ADH and water balance of the body? Explain briefly.
- (e) What do you mean by clearance test? What is the importance of urea and creatinine clearance test?
- **4.** Answer any *three* of the following questions : $10 \times 3=30$
 - (a) Define hormone. Classify hormones on the basis of mechanism of action and explain in detail. 1+2+7=10
 - (b) Is jaundice a disease? Classify jaundice and relate it with altered bilirubin metabolism. 1+3+6=10
 - (c) Write a note on urine formation. How will you evaluate tubular function of the kidney? 5+5=10
 - (d) What do you mean by plasma functional enzyme and plasma non-functional enzyme? Give at least two examples each. Write a note on 'enzymes used in diagnostic purposes'.
 2+2+6=10
 - (e) Write a detailed note on 'coronary heart disease in relation to cardiac profile tests'.
 10

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