

BV (4/CBCS) MLT/MDT VC 2

2024

MEDICAL LABORATORY TECHNICIAN / MEDICAL LAB AND MOLECULAR DIAGNOSTIC TECHNOLOGY

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 : 1×7=7

**(a) _____ hormone is responsible in positive
urine pregnancy test.**

**(b) _____ enzyme is elevated in biliary
obstruction.**

**(c) Non-protein organic part of enzyme is
known as _____.**

**(d) The precursor for synthesis of steroid
hormone is _____.**

(e) _____ artery carries blood to the heart.

(f) In Van den Bergh reaction, presence of direct and indirect bilirubin indicates a _____ reaction.

(g) Bilirubin is not present in urine in case of _____ jaundice.

2. Answer the following questions :

2×4=8

(a) What is the relation between prothrombin time and liver damage?

(b) Why is CK-MB isoenzyme specific for diagnosis of MI?

(c) How is thyroid hormone activity related to the serum cholesterol and blood glucose?

(d) Write down the role of kidney to maintain acid-base balance.

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

5×3=15

(a) How can altered bilirubin metabolism lead to jaundice?

(b) How is ADH related with diabetes insipidus?

(c) Write briefly about the biochemical markers of viral hepatitis.

(3)

(d) Explain various functions of FSH and LH.

(e) Write about urea clearance test.

4. Answer the following questions :

(a) What are various functions of kidney?
How will you evaluate tubular function of kidney? 4+6=10

Or

Explain in detail about myocardial infarction and lipid profile in myocardial infarction. 4+6=10

(b) Explain in detail about the bilirubin metabolism. 10

Or

Name the hormones secreted from pancreas. Explain how they help to regulate your blood glucose level. 2+8=10

(c) Write down the biosynthesis, biochemical functions, regulation and abnormalities of thyroid hormones. 2+2+2+4=10

Or

Write a detailed note on gastric function tests. 10

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