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Roll No. .....

3rd Sem.
Branch : DMLT, DMLT (For Speech and Hearing Impaired)
Sub.: Applied Clinical Biochemistry

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

Q.1 OCPC is method for estimation of

a) SGOT b) ALP
c) Potassium d) Calcium

Q.2 Normal value of serum amylase is

a) 8-40 KU b) 60-180 CU
c) 5-35 KU d) 6-20 CU

Q.3 Which is not accelerator used in bilirubin estimation

a) Methanol b) Dimethyl sulfoxide
c) Caffeine benzoate d) Aminophenazone

Q.4 Reference value of LDL: HDL ratio is less than

a) 1.5:1 b) 2.5:1
c) 3.5:1 d) 4.5:1

Q.5 Activity of ALP enzyme is maximum at pH.

a) 4-5 b) 5-6
c) 8-9 d) 9-10

Q.6 A1 protein is important component of lipoprotein

a) HDL b) LDL
c) IDL d) VLDL

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Write one clinical significance of potassium.

Q.8 Write reference value of ALP.

Q.9 Define hypocalcaemia.

Q.10 What is other name of ALT?

Q.11 Give an example of transaminase group of enzyme.

Q.12 At which pH ACP works.

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

Q.13 Differentiate between conjugated and U conjugated bilirubin.

Q.14 Write down clinical significance of calcium estimation.

Q.15 Differentiate between HDL and LDL.

Q.16 Write short note on cholesterol formation.

Q.17 Explain principal of triglycerides estimation.

Q.18 Write down normal range of ALP, ACP, SGPT, and SGOT

Q.19 Write short note on metabolism of bilirubin.

Q.20 Write short note on classification of amylase.

Q.21 What are conditions responsible for jaundice.

Q.22 Expand LFT. List various test involved in LFT and biomarker for liver.

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

Q.23 Explain the clinical significance of serum bilirubin and serum amylase estimation.

Q.24 Write down principal and procedures of SGPT and SGOT estimation.

Q.25 Explain various components of lipid profile and their clinical significance.