



RAN - 1903000203020073



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S. Y. B. Sc. (Sem. - III) Examination

March - 2023

Medical Laboratory Technology : MLT - 07

General Biochemistry - I

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (Sem. - III)

Name of the Subject :

Medical Laboratory Technology : MLT - 07 General Biochemistry - I

Subject Code No.: **1903000203020073**

Seat No.:

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Student's Signature

(2) All questions are compulsory.

***O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ
O.M.R. Sheetની પાછળ છાપેલ છે.***

***Important instructions to fillup O.M.R. Sheet
are given on back side of the provided O.M.R. Sheet.***

- Q. 7.** Proteins are polymer of _____.
- a) Fatty acid and glycerol b) Monosaccharide
c) Amino acid d) Nucleotides
- Q. 8.** IUB has classified enzymes in how many classes?
- a) 3 b) 4
c) 5 d) 6
- Q. 9.** Glucose is stored in our body in the form of,
- a) Glucose b) Lactose
c) Glycogen d) Inulin
- Q. 10.** What is derived lipid?
- a) It is derived product of simple lipid and compound lipid
b) It is hydrolyzed product of glycerol
c) It is esters of fatty acid with alcohol
d) All of above
- Q. 11.** _____ amino acid does not show optical isomerism.
- a) Alanine b) Glycine
c) Valine d) Tyrosine
- Q. 12.** Name the 4th class of enzyme.
- a) Ligase b) Isomerase
c) Hydrolase d) Lyase
- Q. 13.** Following is an example of keto hexose.
- a) Fructose b) Ribose
c) Xylulose d) Erythrulose

- Q. 14.** Naturally occurring triglyceride contains,
- a) Saturated fatty acid and glycerol
 - b) unsaturated fatty acid and glycerol
 - c) Mixed type of fatty acid and glycerol
 - d) Similar type of fatty acids and glycerol
- Q. 15.** Which amino acid contains indole ring?
- a) Phenylalanine
 - b) Tryptophan
 - c) Tyrosine
 - d) Histidine
- Q. 16.** Michaelis - Menten constant is denoted as _____.
- a) K_1
 - b) K_2
 - c) K_3
 - d) K_m
- Q. 17.** Glucose has _____ asymmetric carbon.
- a) 1
 - b) 2
 - c) 3
 - d) 4
- Q. 18.** What is other name of salivary lipase?
- a) Ptylin
 - b) Amylopsin
 - c) Lingual lipase
 - d) Gastric lipase
- Q. 19.** Following are ketogenic amino acids.
- a) Alanine & Arginine
 - b) Leucine & Lysine
 - c) Tyrosine & Lysine
 - d) Tyrosine, Tryptophan & Isoleucine

- Q. 20.** What is the shape of curve when graph of velocity against pH is plotted?
- a) Bell shaped
 - b) Hyperbolic
 - c) Sigmoid shape
 - d) Straight line originate from zero
- Q. 21.** Presence of -OH group of 1st Carbon of sugar on left side forms _____.
- a) D-sugar
 - b) L-sugar
 - c) α -sugar
 - d) β -sugar
- Q. 22.** What is other name of cephalin?
- a) Phosphatidic acid
 - b) Phosphatidyl choline
 - c) Phosphatidyl ethanol amine
 - d) Phosphatidyl serine
- Q. 23.** The meaning of zwitter is _____.
- a) Single
 - b) Hybrid
 - c) Positive
 - d) Negative
- Q. 24.** Who gave lock and key theory?
- a) Emil Fischer in 1894
 - b) Emil Fischer in 1962
 - c) Koshland in 1962
 - d) Michaelis and Menten in 1875
- Q. 25.** Osazone crystals are not formed by _____.
- a) Glucose
 - b) Fructose
 - c) Galactose
 - d) Sucrose
- Q. 26.** What is not function of lecithin?
- a) Provide storage form of energy
 - b) Prevents from lung collapse and formation of Gall stone
 - c) Essential component of cell membrane
 - d) Involve in nerve impulse transmission

Q. 46. Following Method is not used for qualitative estimation of cholesterol.

- a) Liebermann -Burchardt Test
- b) Salkowaski Test
- c) Wybenga pillegi method
- d) A & B both

Q. 47. The pI of casein is _____.

- a) 4.0
- b) 4.6
- c) 6.0
- d) 6.4

Q. 48. _____ ion is required for activation of ALP.

- a) Magnesium
- b) Manganese
- c) Zink
- d) Both A & B

Q. 49. Sugar alcohol is formed by,

- a) Oxidation
- b) Reduction
- c) Hydration
- d) Hydrolysis

Q. 50. How many -OH group is present in glycerol?

- a) 1
- b) 2
- c) 3
- d) 4

SPACE FOR ROUGH WORK