

Q.P. CODE: M102A030**Dr NTR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - AUGUST, 2024****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY - PAPER-I (SET-A)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

SECTION-I (MCQs - 20 MARKS)**1X2=20**1) Which complexes are involved when FADH₂ enters ETC

- a. Complex I, II, III, IV
- b. Complex II, III
- c. Complex II, III, IV
- d. Complex I, III, IV

2) Which of the following enzymes is not classified under transferases

- a. Hexokinase
- b. SGOT
- c. Tryptophan pyrrolase
- d. Thiophorase

3) Glycogen synthase is highly active under the conditions of

- a. Excess glycogen stores
- b. Starvation

- c. High-fat feeding
- d. High carbohydrate feeding

4) Uses of the NADPH generated from the pentose phosphate pathway are all except

- a. Steroid synthesis
- b. Regeneration of glutathione to its reduced state
- c. Synthesis of fatty acids
- d. Synthesis of ketone bodies

5) Which of the following cofactor is not required by this enzyme to convert pyruvate to Acetyl co A

- a. Thiamine
- b. Lipoic acid
- c. Pantothenic acid
- d. Pyridoxine

6) The heteropolysaccharide which does not contain uronic acid is

- a. Keratan sulphate
- b. Dermatan sulphate
- c. Chondroitin sulphate
- d. Hyaluronic acid

7) Omega – 3 fatty acid is

- a. Alpha linolenic acid
- b. Linoleic acid
- c. Gamma linolenic acid

d. Arachidonic acid

8) All the following statement are true with regard to phospholipids, except:

- a. They can act as antigens
- b. They have surfactant properties
- c. They are components of bio membranes
- d. They are resistant to the action of enzymes

9) Biochemical test required for assessing thiamine deficiency is

- a. FIGLU test
- b. Xanthurenic acid excretion
- c. RBC transketolase test
- d. Ferric chloride test

10) Calcitriol synthesis involves

- a. Liver and kidney
- b. Intestine and kidney
- c. Only liver
- d. Only intestine

11) Requirement of vitamin E increases with the increasing intake of

- a. Calories
- b. Proteins
- c. PUFA
- d. Cholesterol

12) One of the following amino acid is most frequently found at the active site of several enzymes

- a. Glycine
- b. Leucine
- c. Serine
- d. Threonine

13) In normal condition which LDH isoenzyme is predominantly found in serum

- a. LDH-1
- b. LDH-2
- c. LDH-3
- d. LDH-4

14) High levels of lead can affect heme metabolism by combining with SH groups of which out of the following enzymes

- a. ALA synthase
- b. ALA dehydratase
- c. PBG deaminase
- d. Coproporphyrinogen oxidase

15) The highest level of protein structure seen in myoglobin is

- a. Primary
- b. Secondary
- c. Tertiary
- d. Quaternary

16) Specific Dynamic Action (SDA) is highest for

- a. Carbohydrates
- b. Proteins
- c. Lipids
- d. Mixed diet

17) Which of the following supplies the 2 carbon units that are added to the elongation of fatty acid chain

- a. Acetyl co A
- b. Malonyl co A
- c. β - keto acyl co A
- d. Glucose

18) A 75 year old female is seen in the emergency room with fractured arm. Physical examination reveals multiple bruises, perifollicular hemorrhages and bleeding gums. Laboratory result indicates microcytic hypochromic anemia. Which of the following enzymes should be less active than the normal in this patient

- A. Glutathione peroxidase
- B. Prolyl hydroxylase
- C. Gamma Glutamyl transferase
- D. ALA synthase

19) A weight loss advertisement claims that drug causes your body to burn calories without the need of exercise. Which of the following compounds could make this claim

- a. Barbiturates
- b. Antimycin
- c. Dinitrophenol

d. BAL

20) Which of the following Apo proteins is an activator of lipoprotein lipase

- a. Apo A
- b. Apo B
- c. Apo C II
- d. Apo D

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