

Q.P. CODE:M102A031**Dr YSR UNIVERSITY OF HEALTH SCIENCES: VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION - MARCH, 2024****FIRST M.B.B.S. EXAMINATION****BIOCHEMISTRY - PAPER-II (D)****(Multiple Choice Questions)****Time: 20 Minutes****Max Marks: 20****Note: Answer all questions.**

SECTION-I (MCQs - 20 MARKS)**1X2=20**

- 1) Non-essential amino acids are
 - a) Are not components of tissue proteins
 - b) Adequately synthesized in the body
 - c) Have no role in metabolism
 - d) May be synthesized in the body in diseased states

 - 2) Maple syrup urine disease is an inborn error in metabolism of
 - a) Sulphur-containing amino acids
 - b) Aromatic amino acids
 - c) Branched chain amino acids
 - d) Dicarboxylic amino acids

 - 3) An amino acid not found in proteins is
 - a) Homocysteine
 - b) Proline
 - c) Lysine
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d) Histidine

4) Molecular weight of human albumin is about

- a) 156,000
- b) 90,000
- c) 69,000
- d) 54,000

5) The first amino acid incorporated in a polypeptide in a ribosome of a bacterium is

- a) N formyl methionine
- b) Methionine
- c) Alanine
- d) Glycine

6) Which one of the following disorders is characterized by self-mutilated behavior?

- a) Gouty arthritis
- b) Psoriasis
- c) Lesch-Nyhan Syndrome
- d) Severe combined immunodeficiency

7) Carnitine is synthesized from

- a) Lysine and methionine
- b) Glycine and arginine
- c) Aspartate and glutamate
- d) Proline and hydroxyproline

8) One of the following vitamins is associated with purine synthesis

- a) Folate
- b) Biotin
- c) Pyridoxine
- d) Vitamin B12

9) The following nucleoside is used in the treatment of Orotic aciduria

- a) Thymidine
- b) Uridine
- c) Adenosine
- d) Guanosine

10) Following all are anticancer drugs, except

- a) Cisplatin
- b) Actinomycin D
- c) 6-Mercaptopurine
- d) Azithromycin

11) The amino acids required for the synthesis of purines and pyrimidines are

- a) Glycine and Aspartate
- b) Aspartate and Glutamine
- c) Aspartate and Glutamate
- d) Glycine and Glutamate

12) The loss of DNA at the end chromosomes is prevented by the action of

- a) DNA ligase
- b) Telomerase

c) DNA gyrase

d) DNA polymerase

13) Increased gastric HCl secretion is found in

a) Zollinger-Ellison syndrome

b) Gastric carcinoma

c) Pernicious anemia

d) Gastritis

14) Calcitriol acts synergistically with the following hormone on bone

a) Calcitonin

b) Epinephrine

c) Parathyroid hormone (PTH)

d) Insulin

15) Vanden Bergh reaction is indirect positive in which jaundice?

a) Hepatocellular

b) Hemolytic

c) Obstructive

d) All of the above

16) Which one of the following vitamins acts as a cell scavenger?

a) Vitamin E

b) Vitamin D

c) Vitamin A

d) Vitamin K

17) Dietary requirement of thiamine increases with a higher intake of

- a) Carbohydrates
- b) Proteins
- c) Cholesterol
- d) Lipids

18) Keshan disease occurs due to the deficiency of

- a) Selenium
- b) Chromium
- c) Cobalt
- d) Manganese

19) Niacin can be synthesized from the following amino acid

- a) Histidine
- b) Tryptophan
- c) Tyrosine
- d) Threonine

20) Which one of the following trace element deficiencies causes loss of taste sensation?

- a) Copper
- b) Iron
- c) Zinc
- d) Selenium
