

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW
MBBS DEGREE EXAMINATION - 1st PROF PROFESSIONAL
SUPPLEMENTARY EXAM - MARCH 2024

BIOCHEMISTRY - PAPER – I

SECTION A - Multiple Choice Questions (MCQs)

PAPER CODE: 2421130003

SET: B

Note: Choose one correct answer in the OMR sheet provided. No overwriting should be done.

Time: 20 Minutes

(20 x 1 = 20 MARKS)

1. In mammals, the major fat in adipose tissues is

- a) Cholesterol
- b) Phospholipid
- c) Triacylglycerol
- d) Sphingolipids

2. G-proteins act as

- a) Hormone receptors
- b) Hormone carriers
- c) Signal transducers
- d) Second messengers

3. Vitamin required in conversion of folic acid to folinic acid is

- a) Cobalamin
- b) Biotin

- c) Niacin
- d) Ascorbic acid

4. Enterokinase is involved in activation of

- a) Trypsinogen
- b) Pepsinogen
- c) Chymotrypsinogen
- d) Pro-elastase

5. Dietary fats after absorption appear in the circulation as

- a) VLDL
- b) HDL
- c) Chylomicron
- d) LDL

6. Which of the following is a substrate for aldolase activity in Glycolytic pathway?

- a) Glucose-6-p
- b) Glyceraldehyde-3-p
- c) Fructose-1,6-bisphosphate
- d) Fructose-6-p

7. Depression of respiratory centre by use of overdose of anaesthetics may cause

- a) Respiratory alkalosis
- b) Respiratory acidosis
- c) Metabolic alkalosis

d) Metabolic acidosis

8. Which organ cannot utilize fatty acids

- a) Adipose tissue
- b) Brain
- c) Skeletal muscles
- d) Liver

9. Triglycerides are

- a) Major constituents of membranes
- b) Heavier than water
- c) Hydrophilic
- d) Non-polar

10. The sites for gluconeogenesis are

- a) Skin and pancreas
- b) Liver and kidney
- c) Intestine and lens of eye
- d) Lung and brain

11. Carpal tunnel syndrome may occur if there is deficiency of

- a) Folic acid
- b) B12
- c) Niacin
- d) B6

12. The vitamin which would most likely become deficient in an individual who develop a completely carnivorous life style

- a) Niacin
- b) Thiamin
- c) Cobalamin
- d) Vitamin C

13. Glycogen is present in all body tissues except

- a) Brain
- b) Liver
- c) Stomach
- d) Kidney

14. Which one of the following compounds cannot give rise to the net synthesis of Glucose?

- a) α -ketoglutarate
- b) Lactate
- c) Acetyl CoA
- d) Glycerol

15. Substrate for synthesis of Eicosanoids is

- a) Oleic acid
- b) Arachidonic acid
- c) Palmitic acid
- d) Linolenic acid

16. Example of an extracellular enzyme is

- a) Cytochrome oxidase
- b) Lactate dehydrogenase
- c) Hexokinase
- d) Pancreatic lipase

17. Which of the following enzyme is not involved in HMP shunt?

- a) Glucose-6-p-dehydrogenase
- b) Glyceraldehyde-3-p dehydrogenase
- c) Phosphogluconate dehydrogenase
- d) Transketolase

18. Poor source of iron is

- a) Meat
- b) Milk
- c) Kidney
- d) Liver

19. Dietary deficiency of thiamin inhibits the activity of the enzyme:

- a) Pyruvate dehydrogenase
- b) Pyruvate kinase
- c) Enolase
- d) Phosphofructokinase

20. Insulin stimulates

- a) Hepatic glycogenesis
- b) Hepatic glycogenolysis

c) Gluconeogenesis

d) Lipolysis

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