

Q.P. CODE:500-B-CBME

DR. NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008

M.B.B.S. DEGREE EXAMINATION – JAN/FEB, 2022

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)

1x20=20

- 1) Digestive enzymes belong to the class of
 - a) Hydrolases
 - b) Ligases
 - c) Lysates
 - d) Oxidoreductases
- 2) Enzymes which are synthesized in inactive form are called
 - a) Coenzymes
 - b) Apoenzymes
 - c) Lysozymes
 - d) Proenzymes
- 3) Km value indicates
 - a) Affinity of enzyme for substrate
 - b) Maximum velocity
 - c) Specificity of substrate
 - d) Saturating concentration of substrate
- 4) Which of the electron carriers is soluble and mobile?
 - a) Co Q
 - b) Cytochrome c
 - c) Cytochrome a
 - d) Cytochrome b
- 5) Which of the hormone can uncouple oxidative phosphorylation in high concentrations?
 - a) Insulin
 - b) Cortisol
 - c) Thyroxine
 - d) Glucagon
- 6) Which tissue is most insulin sensitive
 - a) Brain
 - b) Liver
 - c) Adipose tissue
 - d) Cardiac muscle

Contd 2

- 7) Blood is collected in fluoride oxalate bottle to
 - a) Prevent clotting
 - b) Preserve glucose
 - c) Preserve glucose prevent clotting
 - d) Get quick results
- 8) Which enzyme catalyses an irreversible reaction?
 - a) Transketolase
 - b) Phosphofructokinase
 - c) Phosphate dehydrogenase
 - d) Aldolase
- 9) Gluconeogenesis is inhibited by
 - a) Glycogen
 - b) Growth hormone
 - c) Insulin
 - d) Glucocorticoids
- 10) Formiminoglutamic acid is excreted in urine in the Deficiency of
 - a) Folic acid
 - b) Vitamin B12
 - c) Niacin
 - d) Pyridoxal phosphate
- 11) Deficiency of pantothenic acid leads to
 - a) Night blindness
 - b) Rickets
 - c) Macrocytic Anaemia
 - d) Burning foot syndrome
- 12) A patient who has undergone gastrectomy is likely to develop deficiency of
 - a) Vitamin A
 - b) Vitamin B12
 - c) Vitamin B1
 - d) Vitamin K
- 13) The organelle in the body mainly concerned with free radical scavenging is
 - a) Lysosomes
 - b) Golgi bodies
 - c) Nucleolus
 - d) Peroxisomes
- 14) Which of the following processes make use of free radical effects?
 - a) Cell adhesion
 - b) Phagocytosis
 - c) Contact inhibition
 - d) Transcytosis

- 15) For the de novo fatty acid synthesis, the coenzyme required is
- NADH
 - NADPH
 - Thiamine Pyro Phosphate
 - FADH₂
- 16) The enzyme which is active only in the liver is
- HMGCoA reductase
 - Carnitine acyl transferase
 - Lecithin cholesterol acyl transferase
 - HMGCoA Lyase
- 17) Which of the following tissue cannot derive energy from fatty acids
- Brain
 - Cardiac muscle
 - Skeletal muscle
 - Erythrocytes
- 18) Which is required for synthesis of porphyrins
- Ammonia
 - Methionine
 - Glycine
 - CO₂
- 19) Specific gravity of Urine increases in
- Chronic glomerulonephritis
 - Diabetes Mellitus
 - Liver disease
 - Intake of vegetables
- 20) Renal plasma flow is measured by
- Creatinine clearance
 - Inulin clearance
 - PAH Clearance
 - Urine output

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M.B.B.S. DEGREE EXAMINATION – JAN/FEB, 2022

FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY – PAPER-I (Set B)

(Multiple Choice Questions)

Time : 20 Minutes

Max. Marks: 20

Note : Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x20=20

- 1) Which of the electron carriers is soluble and mobile?
 - a) Cytochrome a
 - b) Cytochrome b
 - c) Co Q
 - d) Cytochrome c

- 2) Km value indicates
 - a) Specificity of substrate
 - b) Saturating concentration of substrate
 - c) Affinity of enzyme for substrate
 - d) Maximum velocity

- 3) Enzymes which are synthesized in inactive form are called
 - a) Lysozymes
 - b) Proenzymes
 - c) Coenzymes
 - d) Apoenzymes

- 4) Digestive enzymes belong to the class of
 - a) Lysates
 - b) Oxidoreductases
 - c) Hydrolases
 - d) Ligases

- 5) Which enzyme catalyses an irreversible reaction?
 - a) Phosphate dehydrogenase
 - b) Aldolase
 - c) Transketolase
 - d) Phosphofructokinase

- 6) Blood is collected in fluoride oxalate bottle to
 - a) Preserve glucose prevent clotting
 - b) Get quick results
 - c) Prevent clotting
 - d) Preserve glucose

Contd ... 2

- 7) Which tissue is most insulin sensitive
 - a) Brain
 - b) liver
 - c) Adipose tissue
 - d) Cardiac muscle
- 8) Which of the hormone can uncouple oxidative phosphorylation in high concentrations?
 - a) Thyroxine
 - b) Glucagon
 - c) Insulin
 - d) Cortisol
- 9) A patient who has undergone gastrectomy is likely to develop deficiency of
 - a) Vitamin B1
 - b) Vitamin K
 - c) Vitamin A
 - d) Vitamin B12
- 10) Deficiency of pantothenic acid leads to
 - a) Macrocytic Anaemia
 - b) Burning foot syndrome
 - c) Night blindness
 - d) Rickets
- 11) Formiminoglutamic acid is excreted in urine in the Deficiency of
 - a) Niacin
 - b) Pyridoxal phosphate
 - c) Folic acid
 - d) Vitamin B12
- 12) Gluconeogenesis is inhibited by
 - a) Insulin
 - b) Glucocorticoids
 - c) Glycogen
 - d) Growth hormone
- 13) The enzyme which is active only in the liver is
 - a) Lecithin cholesterol acyl transferase
 - b) HMGCoA Lyase
 - c) HMGCoA reductase
 - d) Carnitine acyl transferase

- 14) For the de novo fatty acid synthesis, the coenzyme required is
- Thiamine Pyro Phosphate
 - FADH₂
 - NADH
 - NADPH
- 15) Which of the following processes make use of free radical effects?
- Contact inhibition
 - Transcytosis
 - Cell adhesion
 - Phagocytosis
- 16) Which of the following processes make use of free radical effects?
- Contact inhibition
 - Transcytosis
 - Cell adhesion
 - Phagocytosis
- 17) Renal plasma flow is measured by
- PAH Clearance
 - Urine output
 - Creatinine clearance
 - Inulin clearance
- 18) Specific gravity of Urine increases in
- Liver disease
 - Intake of vegetables
 - Chronic glomerulonephritis
 - Diabetes Mellitus
- 19) Which is required for synthesis of porphyrins
- Glycine
 - CO₂
 - Ammonia
 - Methionine
- 20) Which of the following tissue cannot derive energy from fatty acids
- Skeletal muscle
 - Erythrocytes
 - Brain
 - Cardiac Muscle

Time : 20 Minutes

Max. Marks: 20

Note : Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x20=20

- 1) Km value indicates
 - a) Maximum velocity
 - b) Specificity of substrate
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 - d) Affinity of enzyme for substrate
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 - c) Glucagon
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- 7) Which enzyme catalyses an irreversible reaction?
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 - b) Phosphate dehydrogenase
 - c) Aldolase
 - d) Transketolase
- 8) Which tissue is most insulin sensitive
 - a) Liver
 - b) Adipose tissue
 - c) Cardiac muscle
 - d) Brain
- 9) Deficiency of pantothenic acid leads to
 - a) Rickets
 - b) Macrocytic Anaemia
 - c) Burning foot syndrome
 - d) Night blindness
- 10) Gluconeogenesis is inhibited by
 - a) Growth hormone
 - b) Insulin
 - c) Glucocorticoids
 - d) Glycogen
- 11) A patient who has undergone gastrectomy is likely to develop deficiency of
 - a) Vitamin B12
 - b) Vitamin B1
 - c) Vitamin K
 - d) Vitamin A
- 12) Formiminoglutamic acid is excreted in urine in the Deficiency of
 - a) Vitamin B12
 - b) Niacin
 - c) Pyridoxal phosphate
 - d) Folic acid
- 13) For the de novo fatty acid synthesis, the coenzyme required is
 - a) NADPH
 - b) Thiamine Pyro Phosphate
 - c) FADH₂
 - d) NADH

- 14) The organelle in the body mainly concerned with free radical scavenging is
- Golgi bodies
 - Nucleolus
 - Peroxisomes
 - Lysosomes
- 15) The enzyme which is active only in the liver is
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- 16) Which of the following processes make use of free radical effects?
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 - Transcytosis
 - Cell adhesion
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 - Glycine
 - CO₂
 - Ammonia

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FIRST M.B.B.S. EXAMINATION

BIOCHEMISTRY – PAPER-I (Set D)

(Multiple Choice Questions)

Time : 20 Minutes

Max. Marks: 20

Note : Answer all questions

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- 1) Enzymes which are synthesized in inactive form are called
 - a) Proenzymes
 - b) Coenzymes
 - c) Apoenzymes
 - d) Lysozymes
- 2) Which of the electron carriers is soluble and mobile?
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 - b) Co Q
 - c) Cytochrome c
 - d) Cytochrome a
- 3) Digestive enzymes belong to the class of
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 - c) Ligases
 - d) Lysates
- 4) Km value indicates
 - a) Saturating concentration of substrate
 - b) Affinity of enzyme for substrate
 - c) Maximum velocity
 - d) Specificity of substrate
- 5) Which tissue is most insulin sensitive
 - a) Cardiac muscle
 - b) Brain
 - c) Liver
 - d) Adipose tissue
- 6) Which enzyme catalyses an irreversible reaction?
 - a) Aldolase
 - b) Transketolase
 - c) Phosphofructokinase
 - d) Phosphate dehydrogenase

Contd ... 2

- 7) Blood is collected in fluoride oxalate bottle to
 - a) Get quick results
 - b) Prevent clotting
 - c) Preserve glucose
 - d) Preserve glucose prevent clotting

- 8) Which of the hormone can uncouple oxidative phosphorylation in high concentrations?
 - a) Glucagon
 - b) Insulin
 - c) Cortisol
 - d) Thyroxine

- 9) Formiminoglutamic acid is excreted in urine in the Deficiency of
 - a) Pyridoxal phosphate
 - b) Folic acid
 - c) Vitamin B12
 - d) Niacin

- 10) A patient who has undergone gastrectomy is likely to develop deficiency of
 - a) Vitamin K
 - b) Vitamin A
 - c) Vitamin B12
 - d) Vitamin B1

- 11) Gluconeogenesis is inhibited by
 - a) Glucocorticoids
 - b) Glycogen
 - c) Growth hormone
 - d) Insulin

- 12) Deficiency of pantothenic acid leads to
 - a) Burning foot syndrome
 - b) Night blindness
 - c) Rickets
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 - a) Transcytosis
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