

# MCQ'S PREVIOUS PAPERS

## 2K23 Batch Instants

Q.P. CODE: M102A030  
Dr NTR UNIVERSITY OF HEALTH SCIENCES: AP; VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – OCTOBER, 2024  
FIRST M.B.B.S. EXAMINATION  
**BIOCHEMISTRY – PAPER-I(SET-B)**  
(Multiple Choice Questions)

Time : 20 minutes

Note : Answer all questions

Max. Marks: 20

### SECTION-I(MCQs) – 1x20=20 MARKS

- 1) Cori's cycle transfers
  - a) Glucose from muscles to liver
  - b) Lactate from muscles to liver
  - c) Lactate from the liver to muscles
  - d) Pyruvate from the liver to muscles

**B**
- 2) Gluconeogenesis is decreased by
  - a) Glucagon
  - b) Epinephrine
  - c) Glucocorticoids
  - d) Insulin

**D**
- 3) On boiling Benedict's solution is not reduced by
  - a) Fructose
  - b) Lactose
  - c) Maltose
  - d) Sucrose

**D**
- 4) Two sugars which differ from one another only in configuration around a single carbon atom are termed.
  - a) Epimers
  - b) Anomers
  - c) Optical isomers
  - d) Stereoisomers

**A**
- 5) Among the following, the most sensitive indicator of glomerular function is
  - a) Serum Urea
  - b) Serum Creatinine
  - c) Urea clearance
  - d) Creatinine clearance

**D**
- 6) Which of the following metabolite integrates glucose and fatty acid metabolism?
  - a) Acetyl CoA
  - b) Pyruvate
  - c) Citrate
  - d) Lactate

**A**

## MCQ'S PREVIOUS PAPERS

### BIOCHEMISTRY – PAPER-I(SET-B)

::2::

- 7) Anaemia can occur due to the deficiency of all of the following except:

- a) Thiamine
- b) Pyridoxine
- c) Folic acid
- d) Cyanocobalamin ✓

A

- 8) Catalytic activity of salivary amylase requires the presence of

- a) Chloride ions
- b) Bromide ions
- c) Iodide ions
- d) All of these

A

- 9) HMG CoA is formed in the metabolism of

- a) Cholesterol, ketones and Leucine
- b) Cholesterol, fatty acid and Leucine
- c) Lysine, Leucine and Isoleucine
- d) Ketones, Leucine and Lysine

A

- 10) All the following statements correctly describe ketone bodies except:

- a) They may result from starvation
- b) They are present at high levels in uncontrolled diabetes
- c) They include – OH β-butyrate and acetone
- d) They are utilized by the liver during starvation

D

- 11) Phynoderma is a deficiency of

- a) Essential fatty acids
- b) Proteins
- c) Amino acids
- d) None of these

A

- 12) Gaucher's disease is due to a deficiency of the enzyme

- a) Sphingomyelinase
- b) Glucocerebrosidase
- c) Galactocerebrosidase
- d) β-Galactosidase

B

- 13) Serum lactate dehydrogenase rises in

- a) Viral hepatitis
- b) Myocardial infarction
- c) Carcinomatosis
- d) All of these

D

Contd.3..

## MCQ'S PREVIOUS PAPERS

### BIOCHEMISTRY – PAPER-I(SET-B)

::3::

- 14) Both folic acid and vitamin  $B_{12}$  are required in  
a) Deamination of serine  
b) Deamination of threonine  
c) Conversion of pyridoxal phosphate to pyridoxamine phosphate  
d) Methylation of homocysteine to methionine D
- 15) The vitamin required for the formation of hydroxyproline during collagen synthesis is  
a) Vitamin C A  
b) Vitamin A  
c) Vitamin D  
d) Vitamin E
- 16) The most potent Vitamin D metabolite is  
a) 25-Hydroxycholecalciferol B  
b) 1,25-Dihydroxycholecalciferol  
c) 24, 25-Dihydroxycholecalciferol  
d) 7-Dehydrocholesterol
- 17) An example of feedback inhibition is  
a) Allosteric inhibition of hexokinase by glucose-6-phosphate  
b) Cyanide action on cytochrome  
c) Sulpha drug on folic acid synthesizer bacteria  
d) Reaction between succinic dehydrogenase and succinic acid A
- 18) 'Clearing factor' is  
a) Lipoprotein lipase A  
b) Crotonase  
c) 7-dehydro cholesterol  
d) B-sitosterol
- 19) Acetyl CoA carboxylase is activated by  
a) Citrate  
b) Insulin C  
c) Both A & B  
d) None of these
- 20) Glucose-6-phosphate dehydrogenase is induced by  
a) 6-Phosphogluconolactone D  
b) Glucose-6-phosphate  
c) Ribose-5-phosphate  
d) Insulin

## MCQ'S PREVIOUS PAPERS

S.NO.	Dr. NTR UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA. Final Key – 1 MBBS Exams - October, 2024 <b>BIOCHEMISTRY -PAPER-I</b>			
	SET-A	SET-B	SET-C	SET-D
1)	A	B	C	D
2)	B	D	A	B
3)	C	D	B	A
4)	D	A	D	D
5)	D	D	B	A,C
6)	A,C	A	A	D
7)	B	A,C	D	A
8)	A	A	A,C	A
9)	A	A	C,D	A
10)	C	C,D	B	A
11)	B,C	A	A	B
12)	D	B	C	C,D
13)	D	B,D	C	A
14)	C	D	B	B,D
15)	B	A	B,D	B
16)	A,B	B	A	D
17)	A	A	A	C
18)	B	A	D	A
19)	C	C	B	D
20)	D	D	C	A

# MCQ'S PREVIOUS PAPERS

## 2K23 Batch Regular

Q.P. CODE: M102A030  
Dr NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – AUGUST, 2024  
FIRST M.B.B.S. EXAMINATION  
**BIOCHEMISTRY – PAPER-I(SET-A)**  
(Multiple Choice Questions)

Max. Marks: 20

Time : 20 minutes

Note : Answer all questions

### SECTION - I (MCQs- 20 MARKS)

1x20=20

- 1) Which complexes are involved when FADH<sub>2</sub> 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 pyrolase
  - 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

Contd ....2

## MCQ'S PREVIOUS PAPERS

SET -A :: 2 ::

- 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

Contd .... 3

## MCQ'S PREVIOUS PAPERS

SET - A :: 3 ::

- 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.  $\beta$ - 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

# MCQ'S PREVIOUS PAPERS

Dr NTR UNIVERSITY OF HEALTH SCIENCES :: A.P.: VIJAYAWADA  
1<sup>st</sup> MBBS AUGUST, 2024 Exams

SET-A

## BIOCHEMISTRY - I (Final key )

S.NO.	KEY ANSWER
1)	C
2)	C
3)	C&D
4)	D
5)	D
6)	A
7)	A&C
8)	A&D
9)	C
10)	A
11)	C
12)	C
13)	B
14)	B
15)	C
16)	B
17)	A&B
18)	B
19)	C
20)	C

# MCQ'S PREVIOUS PAPERS

## 2022 Batch (Instants)

TIME : 20 minutes  
Note : Answer all questions

**SECTION - I (MCQs- 20 MARKS)**

1x20=20

1) Physiological uncouplers of ETC from oxidative phosphorylation

- Thermogenin
- Thyroxine
- Long chain FFA
- All

2) The factories of protein biosynthesis are

- Nucleus
- Ribosomes
- Mitochondrion
- Cell sap

3) All the following statements about chemiosmosis are true, except

- ETC Complexes, I, III and IV act as proton pumps
- During transfer of two electrons through ETC, 10 protons are pumped out of the matrix
- Electrochemical gradient across inner mitochondrial membrane powers the synthesis of ATP
- ATP synthase activity is associated with complex IV

4) All the following coenzymes are derivatives of B-complex vitamins, except

- S-adenosyl methionine
- NAD<sup>+</sup>
- Pyridoxal phosphate
- Coenzyme A

5) Transketolase activity is affected in

- Biotin deficiency
- Pyridoxine deficiency
- PABA deficiency
- Thiamine deficiency

6) The conversion of alanine to glucose is termed

- Glycolysis
- Oxidative decarboxylation
- Specific dynamic action
- Gluconeogenesis

Contd...2...

## MCQ'S PREVIOUS PAPERS

::2::

- 7) Phrynoderma is a deficiency of  
a) Essential fatty acids  
b) Proteins  
c) Amino acids  
d) None of these
- 8) Oxidative decarboxylation of pyruvate requires except  
a) NADP+  
b) TPP  
c) FAD  
d) Coenzyme A
- 9) All the following statements about ketone bodies are true except  
a) Their synthesis increases in diabetes mellitus  
b) They are synthesized in mitochondria  
c) They can deplete the alkali reserve  
d) They can be oxidized in the liver
- 10) The only phospholipid having antigenic properties is  
a) Plasmalogens  
b) Céphalin  
c) Cardiolipin  
d) Lecithin
- 11) Dipalmitoyl acts as  
a) Platelet activating factor  
b) Second messenger for hormones  
c) Lung surfactant  
d) Anti-ketogenic compound
- 12) Beta-oxidation of fatty acids requires all the coenzymes except  
a) CoA  
b) FAD  
c) NAD  
d) NADP
- 13) All the following are local hormones except  
a) Prostaglandin  
b) Prostacyclin  
c) Thromboxane  
d) Tocopherol

Contd.3..

## MCQ'S PREVIOUS PAPERS

- 14) Niemann-Pick disease results from deficiency of  
a) Ceramidase  
b) Sphingomyelinase  
c) Arylsulphatase A  
d) Hexosaminidase A
- 15) Antioxidant enzymes are  
a) Superoxide dismutase (SOD)  
b) Catalase  
c) Glutathione peroxidase  
d) All the above
- 16) Refsum's disease results from a defect in the following pathway except  
a) Alpha-oxidation of fatty acids  
b) Beta-oxidation of fatty acids  
c) Gamma-oxidation of fatty acids  
d) Omega-oxidation of fatty acids
- 17) Monoclonal antibodies are useful for  
a) Early detection of pregnancy  
b) Treatment of cancer  
c) Treatment of autoimmune diseases  
d) All
- 18) Following are the beneficial effect of Reactive Oxygen Species (ROS), except  
a) Bactericidal effect  
b) Reduces blood pressure  
c) Radiotherapy  
d) Mutations
- 19) Milk is deficient in which vitamin  
a) Vitamin C  
b) Vitamin A  
c) Vitamin B6  
d) Vitamin E
- 20) Following biomolecules are separated by electrophoresis, except  
a) Plasma proteins  
b) Lipoproteins  
c) Blood urea  
d) Immunoglobulins

# MCQ'S PREVIOUS PAPERS

Dr.Y.S.R. UNIVERSITY OF HEALTH SCIENCES::AP::VIJAYAWADA.

Final Key – 1 MBBS Supplementary/March , 2024

S.NO.	BIOCHEMISTRY PAPER-I			
	SET-A	SET-B	SET-C	SET-D
1)	B	B, D	D	A
2)	A	D	B	B, D
3)	D	A	B,D	B
4)	B,D	B	A	D
5)	D	A	D	A
6)	A	D	D	A
7)	D	A	A	D
8)	A	D	A	D
9)	C	C	B, D	D
10)	D	B, D	C	C
11)	B,D	D	C	C
12)	C	C	D	B, D
13)	B	D	D	ABCD
14)	ABCD	D	B	D
15)	D	ABCD	D	B
16)	D	B	ABCD	D
17)	B,D	A	D	C
18)	C	D	B,D	A
19)	D	C	A	B,D
20)	A	B,D	C	D

# MCQ'S PREVIOUS PAPERS

## 2022 Batch (Regular)

CBME

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

M.B.B.S. DEGREE EXAMINATION - DECEMBER, 2023

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) The following amino acid can enter citric acid cycle as oxaloacetate  
a. Lysine  
b. Proline  
c. Aspartate ✓  
d. Serine
- ✓ 2) Oxidative phosphorylation and electron transport chain are inhibited by the following compounds, (except)  
a. Carbon monoxide ✓  
b. Hydrogen cyanide ✓  
c. Oligomycin ✓  
d. Pyrophosphate
- ✓ 3) The coenzyme  
a. Increases the affinity of apoenzyme to substrate  
b. Lowers the activation energy  
c. Accepts one of the products of the reaction  
d. Increases the number of active sites of the enzyme
- ✗ 4) Enzymes binds to substrate  
a. By covalent bonds  
b. By glycosidic bond  
c. At catalytic site only  
d. Peptide bond
- ✓ 5) A vitamin not available from plant source  
a. Vitamin B1  
b. Vitamin B12  
c. Vitamin B2  
d. Vitamin K
- ✓ 6) Mac Ardle's syndrome is due to deficiency of  
a. Pyruvate kinase  
b. Glycogen synthase  
c. Muscle glycogen phosphorylase ✓  
d. Debranching enzyme

Contd ... 2

## MCQ'S PREVIOUS PAPERS

:: B- 2 ::

- 7) Which of the following enzyme is inhibited in starvation?
- a. Alanine transferase ✓
  - b. Glucokinase ✗
  - c. Pyruvate carboxylase ✗
  - d. Carbonic anhydrase ✗
- 8) Which of the following enzyme catalyzes substrate level phosphorylation
- a. Hexokinase ✓
  - b. Phosphofructokinase ✓
  - c. Glycogen phosphorylase ✓
  - d. Pyruvate kinase ✓
- 9) The serum lipoprotein with highest cholesterol content is
- a. High density lipoprotein ✓
  - b. Low density lipoprotein ✓
  - c. Very low density lipoprotein ✓
  - d. Chylomicron ✓
- 10) Which of the following is not included in calculating calorie requirement of an individual
- a. RQ ✓
  - b. BMR ✓
  - c. SDA ✓
  - d. Nature of work ✓
- 11) Lysine is deficient in
- a. Cereals (rice and wheat) ✓
  - b. Maize and corn ✓
  - c. Pulses (Bengal gram dal) ✓
  - d. Tapioca (Cassava) ✓
- 12) The structure of vitamin A contains
- a. Naphthoquinone ring ✗
  - b. Chromane ring ✗
  - c. Beta ionone ring ✗
  - d. Thiazole ring ✗
- 13) The following enzyme of heme biosynthesis is inhibited by lead
- a. ALA dehydratase ✓
  - b. UBG I Synthase ✓
  - c. ALA synthase ✓
  - d. Coproporphyrinogen oxidase ✓
- 14) Which of the following process makes use of free radical
- a. Cell adhesion ✓
  - b. Phagocytosis ✓
  - c. Contact inhibition ✓
  - d. Pinocytosis ✓

## MCQ'S PREVIOUS PAPERS

:: B - 3 ::

15) Hypercholesterolemia is seen in the following conditions except

- a. Diabetes mellitus ✓
- b. Hyperthyroidism X
- c. Nephrotic syndrome X
- d. Obstructive jaundice •

16) The chain elongation of fatty acid takes place in

- a. Mitochondria •
- b. Microsomes X
- c. Golgi complex •
- d. Peroxisome X

Syn = mit

17) The following are the feature of starvation except

- a. Ketoacidosis ✓
- b. Glycogenolysis ✓
- c. Increase in BMR
- d. Gluconeogenesis ✓

18) Specific gravity of urine is increased in

- a. Chronic glomerulonephritis
- b. Diabetes mellitus
- c. Liver disease
- d. Intake of vegetables

19) Beta oxidation of fatty acid forms all the following except

- a. NADH ✓
- b. Acetyl CoA ✓
- c. Malonyl CoA
- d. FADH<sub>2</sub> ✓

20) Congenital erythropoietic porphyria is caused due to deficiency of

- a. Coproporphyrinogen oxidase
- b. Uroporphyrinogen III cosynthase
- c. PBG deaminase
- d. Protoporphyrinogen oxidase

# MCQ'S PREVIOUS PAPERS

Dr YSR UNIVERSITY OF HEALTH SCIENCES :: A.P.: VIJAYAWADA  
1<sup>st</sup> MBBS December, 2023 Exams

SET-B

## BIOCHEMISTRY – I (Final key)

S.NO.	KEY ANSWER
1)	C
2)	D
3)	C
4)	A,C
5)	B
6)	C
7)	B
8)	D
9)	B
10)	A
11)	A,B
12)	C
13)	A
14)	B
15)	B
16)	A,B
17)	C
18)	B
19)	C
20)	B

## MCQ'S PREVIOUS PAPERS

### 2021 Batch (Regular)

CBME

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

M.B.B.S. DEGREE EXAMINATION – JANUARY, 2023

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 following coenzyme is required for HMP pathway?  
 a) Pyridoxal phosphate  
b) Biotin  
 c) Thiamine pyrophosphate  
d) Flavin adenine diphosphate
- 2) Which of the following is not a high energy compound?  
 a) Creatine phosphate  
 b) Glucose 6 phosphate  
c) Phosphoenol pyruvate  
d) 1,3 bisphosphoglycerate
- 3) Long term regulation of enzyme action is affected by  
 a) Altering the activity of enzyme protein  
 b) Induction and repression of enzyme protein synthesis  
c) Premature breakdown of enzyme protein  
d) Partial denaturation of enzyme protein
- 4) A constitutive enzyme is:  
 a) Activated by an inducer  
b) Inhibited by a repressor  
 c) Always present in the cell in the same concentration  
d) A constituent of the cell membrane
- 5) Insulin favors:  
 a) Gluconeogenesis  
b) Cholesterol Synthesis  
 c) Lipogenesis  
d) Ketogenesis
- 6) Deficiency of Folic acid leads to:  
 a) Pellagra  
b) Night Blindness  
 c) Macrocytic Anemia  
d) Microcytic Anemia

Contd ... 2

## MCQ'S PREVIOUS PAPERS

:: B-2 ::

- 7) Which of the following enzyme generated NADPH?
  - a) Pyruvate carboxylase
  - b) Pyruvate dehydrogenase
  - c) Glucose 6 phosphate dehydrogenase
  - d) Lactate Dehydrogenase
- 8) Which of the following cannot be converted back to glucose?
  - a) Acetyl CoA
  - b) Lactate
  - c) Alanine
  - d) Propionyl CoA
- 9) The main apoprotein present in HDL is:
  - a) Apo A1
  - b) B-100
  - c) B-48
  - d) Apo E
- 10) Which of the below mentioned compound has highest calorific value:
  - a) Glucose
  - b) Amino Acid
  - c) Palmitic acid
  - d) Ethanol
- 11) Negative nitrogen balance is observed in:
  - a) Pregnancy
  - b) Chronic fever
  - c) Convalescence
  - d) Growth period
- 12) Large dose of Vitamin K in neonate can cause:
  - a) Cyanosis
  - b) Porphyria
  - c) Jaundice
  - d) Skin Disorder
- 13) Heme is converted to bilirubin in:
  - a) Mitochondria
  - b) Microsomes
  - c) Golgi Bodies
  - d) Plasma Membrane
- 14) The organelle concerned with free radical scavenging is:
  - a) Lysosome
  - b) Golgi Bodies
  - c) Nucleolus
  - d) Peroxisomes

## MCQ'S PREVIOUS PAPERS

:: B-3 ::

- 15) Refsum's disease is due to accumulation of:
- a) Sphingomyelin
  - b) Glucocerebroside
  - c) Phytanic Acid
  - d) Ganglioside
- 16) The tissue that cannot use fatty acids as fuel is:
- a) Liver
  - b) Brain
  - c) Skeletal Muscle
  - d) Cardiac muscle ✗
- 17) Which of the following is Phase 3 reaction of Detoxification:
- a) Epoxidation
  - b) Glucuronidation ✗
  - c) Deconjugation ✗
  - d) Dealkylation
- (18) The pathway which takes place in mitochondria is
- a) Glycolysis ✗
  - b) HMP pathway ✗
  - c) Ketogenesis ✗
  - d) Cholesterol synthesis
- 19) Steroid hormone is produced from:
- a) Purine
  - b) Pyrimidine
  - c) Cholesterol
  - d) Stercobilinogen
- (20) Renal plasma flow is measured by:
- a) Creatinine Clearance ✓
  - b) Specific gravity of urine ✗
  - c) Para amino Hippurate clearance ✓
  - d) Urine output ✗

# **MCQ'S PREVIOUS PAPERS**

**SET-B**

## **BIOCHEMISTRY - I**

<b>S.NO.</b>	<b>KEY ANSWER</b>
1)	C
2)	B
3)	B
4)	C
5)	C
6)	C
7)	C
8)	A
9)	A
10)	C
11)	B
12)	C
13)	B
14)	D
15)	C
16)	B
17)	A
18)	C
19)	C
20)	C

# MCQ'S PREVIOUS PAPERS

## 2021 Batch (Instants)

DR. YSR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008  
M.B.B.S. DEGREE EXAMINATION – APRIL, 2023  
FIRST M.B.B.S. EXAMINATION  
**BIOCHEMISTRY – PAPER-I (SET C)**  
(Multiple Choice Questions)

CBME

Time : 20 minutes  
Note : Answer all questions

Max. Marks: 20

### SECTION – I (MCQs- 20 MARKS)

1x20=20

- 1) The number of carbon atoms involved in the osazone formation
  - a. 1 and 2
  - b. 2 and 3
  - c. 3 and 4
  - d. 5 and 6
- 2) Polysaccharide which is composed by E-glycosidic bonds
  - a. Starch
  - b. Glycogen
  - c. Dextrin
  - d. Cellulose
- 3) One of the following is an amphipathic lipid
  - a. Phospholipids
  - b. Fatty acid
  - c. Bile salts
  - d. All of the above
- ✓ 4) The glycosaminoglycan that serves as an anticoagulant
  - a. Heparin
  - b. Hyaluronic acid
  - c. Chondroitin sulfate
  - d. Dermatan sulfate
- 5) The coenzyme not involved in hydrogen transfer
  - a. FMN
  - b. FAD
  - c. NADP+
  - d. FH4
- 6) Esterification of cholesterol occurs at carbon position
  - a. 1
  - b. 2
  - c. 3
  - d. 4

Contd .... 2

## MCQ'S PREVIOUS PAPERS

::C - 2 ::

- 7) In the feedback regulations, the end product binds at
  - a. Active site
  - b. Allosteric site
  - c. E-S complex
  - d. None of the above
- 8) Test employed to check the purity of butter through the estimation of volatile fatty acids is
  - a. Iodine number
  - b. Reichert Meisel number
  - c. Saponification number
  - d. Acid number
- 9) The coenzyme directly concerned with the synthesis of biogenic amines
  - a. TPP
  - b. NADP+
  - c. Biotin
  - d. Pyridoxal phosphate
- 10) Formimino glutamic acid is excreted in urine in the deficiency of Vitamin
  - a. Riboflavin
  - b. Folic acid
  - c. Biotin
  - d. Vit C
- 11) The enzyme that converts trypsinogen to trypsin is
  - a. Secretin
  - b. Chymotrypsin
  - c. Elastase
  - d. Enteropeptidase
- 12) Active form of Vitamin D is
  - a. Cholecalciferol
  - b. Ergocalciferol
  - c. Dehydrocholesterol
  - d. Calcitriol
- 13) Inner mitochondrial membrane is impermeable to
  - a. H<sup>+</sup>
  - b. K<sup>+</sup>
  - c. OH<sup>-</sup>
  - d. All of them
- 14) The number of heme groups present in myoglobin
  - a. 1
  - b. 2
  - c. 3
  - d. 4

Contd .... 3

## MCQ'S PREVIOUS PAPERS

::C - 3 ::

- 15) Vandenbergh reaction in hemolytic jaundice is
  - a. Indirect positive
  - b. Direct positive
  - c. Biphasic
  - d. None of these
- 16) The substance that facilitates the release of O<sub>2</sub> from oxyhemoglobin
  - a. 2,3, BPG
  - b. H<sup>+</sup>
  - c. Cl<sup>-</sup>
  - d. All of them
- 17) In a normal adult man the amount of triacylglycerol stored is
  - a. 40 kg
  - b. 35 kg
  - c. 25 kg
  - d. 15 kg
- 18) Food stuff with highest specific dynamic action is
  - a. Protein
  - b. Carbohydrate
  - c. Fat
  - d. Vitamins
- 19) The final common pathway for oxidation of major food stuff is
  - a. Glycolysis
  - b. Kreb's cycle
  - c. HMP shunt
  - d.  $\beta$  oxidation
- 20) One of the following is the most important essential fatty acid in the diet
  - a. Linoleic acid
  - b. Arachidonic acid
  - c. Oleic acid
  - d. Palmitic acid

# MCQ'S PREVIOUS PAPERS

## 2020 Batch (Regular)

**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

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#### **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

## MCQ'S PREVIOUS PAPERS

SET – A :: 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 inhibiton
  - d) Transcytosis

## MCQ'S PREVIOUS PAPERS

SET – A :: 3 ::

- 15) For the de novo fatty acid synthesis, the coenzyme required is
  - a) NADH
  - b) NADPH
  - c) Thiamine Pyro Phosphate
  - d) FADH<sub>2</sub>
- 16) The enzyme which is active only in the liver is
  - a) HMGCoA reductase
  - b) Carnitine acyl transferase
  - c) Lecithin cholesterol acyl transferase
  - d) HMGCoA Lyase
- 17) Which of the following tissue cannot derive energy from fatty acids
  - a) Brain
  - b) Cardiac muscle
  - c) Skeletal muscle
  - d) Erythrocytes
- 18) Which is required for synthesis of porphyrins
  - a) Ammonia
  - b) Methionine
  - c) Glycine
  - d) CO<sub>2</sub>
- 19) Specific gravity of Urine increases in
  - a) Chronic glomerulonephritis
  - b) Diabetes Mellitus
  - c) Liver disease
  - d) Intake of vegetables
- 20) Renal plasma flow is measured by
  - a) Creatinine clearance
  - b) Inulin clearance
  - c) PAH Clearance
  - d) Urine output

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## MCQ'S PREVIOUS PAPERS

1<sup>st</sup> MBBS (BIOCHEMISTRY) - NR (Paper-I) - JANUARY – 2022

A

S.NO.	KEY ANSWER
1)	A
2)	D
3)	A
4)	A
5)	C
6)	C
7)	C
8)	B
9)	C
10)	D
11)	D
12)	B
13)	D
14)	B
15)	B
16)	D
17)	D
18)	C
19)	B
20)	C

## **MCQ'S PREVIOUS PAPERS**

## **2020 Batch (Instants)**

<p>DR. NTR UNIVERSITY OF HEALTH SCIENCES: AP: VIJAYAWADA-520 008  M.B.B.S. DEGREE EXAMINATION – MAY, 2022  FIRST M.B.B.S. EXAMINATION  <b>BIOCHEMISTRY – PAPER-I (Set C)</b>  (Multiple Choice Questions)</p> <p>Time : 20 Minutes  Note : Answer all questions</p>	CBME 1x20=20 Max. Marks: 20
<b>SECTION – I (MCQs- 20 MARKS)</b>	
1) Which enzymes contains copper	1x20=20
<ul style="list-style-type: none"> <li>a. Cytochrome P450</li> <li><input checked="" type="checkbox"/> b. Cytochrome oxidase</li> <li>c. Cytochrome b5</li> <li>d. Coenzyme Q</li> </ul>	
2) Serum alkaline phosphatase is increasing in	
<ul style="list-style-type: none"> <li>a. Hypothyroidism</li> <li>b. Myocardial infarction</li> <li>c. Carcinoma of prostate</li> <li><input checked="" type="checkbox"/> d. Bone diseases</li> </ul>	
3) Death due to cyanide poisoning is result of	
<ul style="list-style-type: none"> <li>a. Cyanide blocking oxygen transport in blood</li> <li>b. Cyanide hemoglobin complex formation</li> <li>c. Cyanide inhibiting complex of respiratory chain</li> <li><input checked="" type="checkbox"/> d. Cyanide inhibiting cytochrome oxidase</li> </ul>	
4) Acute pancreatitis may be diagnosed by estimating serum levels of the enzyme	
<ul style="list-style-type: none"> <li>a. Acid phosphatase</li> <li>b. Alanine transaminase</li> <li>c. Amylase</li> <li><input checked="" type="checkbox"/> d. Alkaline phosphatase</li> </ul>	
5) All the following coenzymes are involved in pyruvate dehydrogenase reaction except	
<ul style="list-style-type: none"> <li>a. Flavine Adenine Dinucleotide</li> <li><input checked="" type="checkbox"/> b. Thiamine Pyrophosphate</li> <li>c. Biotin</li> <li>d. Nicotinamide Adenine Dinucleotide</li> </ul>	
6) Which enzyme in glycolytic pathway is inhibited by fluoride ions	
<ul style="list-style-type: none"> <li>a. Aldolase</li> <li>b. Enolase</li> <li>c. Hexokinase</li> <li><input checked="" type="checkbox"/> d. Phospho fructokinase</li> </ul>	

## MCQ'S PREVIOUS PAPERS

:: C-2 ::

- 7) Pyruvate is converted to acetyl coA by  
a. Lactate dehydrogenase  
**B** b. Pyruvate dehydrogenase  
c. Pyruvate carboxylase  
d. Pyruvate kinase
- 8) The key enzyme of glycolysis is  
a. Phosphohexose Isomerase  
b. Phosphofructokinase  
c. Glucose 6 phosphatase  
d. Glycolaldehyde 3 phosphate dehydrogenase
- 9) Nyctalopia is due to deficiency of  
**B** a. Vitamin K  
b. Vitamin A  
c. Vitamin E  
d. Vitamin B12
- 10) If the product is more toxic than original compound, which of the following toxin is used  
a. Conjugation  
b. Biotransformation  
c. Detoxification  
d. Bioactivation
- 11) Vitamin K is inhibited by  
a. Isoniazid (INH)  
**d** b. Avidin  
c. Methotrexate  
d. Dicoumarol
- 12) Which of the following enzymes are involved in detoxification  
a. Decarboxylases  
**a** b. Cytochrome P450 enzymes  
c. Transaminases  
d. Dehydrogenases
- 13) Which of the vitamins listed has no antioxidant property  
a. Vitamin E  
b. Vitamin A  
**C** c. Vitamin K  
d. Vitamin C

## MCQ'S PREVIOUS PAPERS

C-3 :

- 14) Which is the enzyme specially involved in ossification of bone  
a. Hexokinase  
b. ATPase  
 c. Alkaline phosphatase  
d. Acid phosphatase
- 15) Which disease is associated with conjugated hyper bilirubinemia  
a. Dubin Johnson syndrome  
b. Congenital spherocytosis  
c. Gilbert disease  
 d. Crigler Najjar syndrome
- 16) Which of the following diseases are not attributed to free radical injury  
a. Cataract  
b. Reperfusion injury  
 c. Retrosternal fibroplasia  
d. Hypothyroidism
- 17) Ketone bodies in urine are identified by  
a. Heat and acetic acid  
b. Benedict's test  
 c. Rothera's test  
d. Benzidine test
- 18) Heme contains  
a. Sodium  
b. Magnesium  
c. Calcium  
 d. Iron
- 19) The pathway which taken place in the Mitochondria is  
 A a. Ketogenesis  
b. Glycolysis  
 c. Cholesterol synthesis  
d. HMP shunt pathway
- 20) Fatty liver may be prevented by the following except  
a. Lecithin  
 b. Ethanol  
c. Choline  
d. Erythrocytes

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## **MCQ'S PREVIOUS PAPERS**

1<sup>st</sup> MBBS (BIOCHEMISTRY) - NR (Paper-I) - MAY- 2022

C

S.NO.	KEY ANSWER
1)	B
2)	D
3)	D
4)	C
5)	C
6)	B
7)	B
8)	B
9)	B
10)	D
11)	D
12)	B
13)	C
14)	C
15)	A
16)	D
17)	C
18)	D
19)	A
20)	B