

MCQ'S PREVIOUS PAPERS

2K23 Batch Instants

Q.P. CODE: M102A031
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-II(SET-B)
(Multiple Choice Questions)

Max. Marks: 20

Time : 20 minutes
Note : Answer all questions

SECTION-I (MCQs) – 1x20=20 MARKS

- 1) Plasma proteins which contain more than 4% hexosamine are
 - a) Microglobulins
 - b) Glycoproteins
 - c) Orosomucoids
 - d) MucoproteinsD
- 2) Which of the following is a tripeptide?
 - a) Anserine
 - b) Oxytocin
 - c) Glutathione
 - d) KallidinC
- 3) The following points about microfilaments are true except
 - a) They form cytoskeleton with microtubules
 - b) The form of intracellular conducting channels
 - c) They provide support and shape
 - d) They are involved in muscle cell contractionB
- 4) Mitochondrial DNA is
 - a) Circular double stranded
 - b) Circular single stranded
 - c) Linear double helix
 - d) None of theseA
- 5) An amino acid that does not take part in a helix formation is
 - a) Histidine
 - b) Tyrosine
 - c) Tryptophan
 - d) ProlineD
- 6) In urea synthesis, the amino acid functions solely as an enzyme activator
 - a) Ornithine
 - b) Citrulline
 - c) N-acetyl glutamate
 - d) ArginineC
- 7) The amino acid which detoxicated benzoic acid to form hippuric acid is
 - a) Alanine
 - b) Glycine
 - c) Serine
 - d) Glutamic acidB

Contd.2...

MCQ'S PREVIOUS PAPERS

BIOCHEMISTRY – PAPER-II(SET-B)

::2::

- 8) The apolipoprotein which forms the integral component of chylomicron is

- a) B-48
- b) C
- c) D
- d) B-100

A

- 9) Plasma proteins act as
- a) Buffers
 - b) Immunoglobulins
 - c) Reserve proteins
 - d) All of these

D

- 10) NH₃ is removed from brain mainly by
- a) Creatinine formation
 - b) Uric acid production
 - c) Glutamine formation
 - d) Urea formation

C

- 11) Insulin is made up of
- a) A single polypeptide chain having 51 amino acid residues
 - b) A-chain having 21 and B-chain having 30 amino acid residues
 - c) A single polypeptide chain having 84 amino acid residues
 - d) A-chain having 30 and B-chain having 21 amino acid residues.
- 12) Maple syrup urine diseases is an inborn error of metabolism of
- a) Branched chain amino acids
 - b) Dicarboxylic amino acids
 - c) Aromatic amino acids
 - d) Sulphur-containing amino acids

B

- 13) The immunoglobulin which provides the highest antiviral activity is
- a) Ig G
 - b) Ig E
 - c) Ig D
 - d) Ig A

A

- 14) All are Amino acid-derived hormones except:
- a) Thiamine
 - b) Epinephrine
 - c) Testosterone
 - d) Nor-epinephrine

C

- 15) Niacin can be synthesized in human beings from
- a) Histidine
 - b) Tryptophan
 - c) Phenylalanine
 - d) Tyrosine

B

MCQ'S PREVIOUS PAPERS

Contd.3..

BIOCHEMISTRY – PAPER-II(SET-B)

::3::

16) In mammalian cells, ribosomal RNA is produced mainly in the

- a) Nucleolus
- b) Nucleus
- c) Ribosome
- d) Golgi apparatus

A

17) A characteristic pheochromocytoma is elevated urinary excretion of

- a) Dopamine
- b) Tyrosine
- c) Phenylalanine
- d) Vanillylmandelic acid

D

18) Zinc is a constituent of the enzyme

- a) Succinate dehydrogenase
- b) Mitochondrial superoxide dismutase
- c) Carbonic anhydrase
- d) Aldolase

C

19) Which of the following statements about Menke's disease are true

- a) It is an inherited disorder of copper metabolism
- b) Plasma copper is increased in it
- c) It occurs only in males
- d) Hair becomes steely and kinky in it

A

20) Meningitis and encephalitis cause

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

D

MCQ'S PREVIOUS PAPERS

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

MCQ'S PREVIOUS PAPERS

2K23 Batch Regular

Q.P. CODE: M102A031

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-II(SET-B)
(Multiple Choice Questions)

Max. Marks: 20

Time : 20 minutes

Note : Answer all questions

1x20=20

SECTION – I (MCQs- 20 MARKS)

- 1) Which of the following enzymes requires Adenosine Triphosphate (ATP) for its action
 - a. Argino Succinate lyase
 - b. Argino Succinate synthetase
 - c. Arginase
 - d. Glutaminase
- 2) Which of the following contributes nitrogen atoms to both purine and pyrimidine rings
 - a. Aspartate
 - b. Carbamoyl phosphate
 - c. Carbon dioxide
 - d. Glutamate
- 3) The greatest buffering capacity at physiological pH would be provided by a protein rich in which of the following amino acids
 - a. Serine
 - b. Cysteine
 - c. Alanine
 - d. Histidine
- 4) Purely ketogenic amino acid is
 - a. Leucine
 - b. Threonine
 - c. Isoleucine
 - d. Tyrosine
- 5) RNA synthesis is different from DNA synthesis in following ways, except:
 - a. No efficient proof reading function during RNA synthesis
 - b. Primer is not involved in RNA synthesis
 - c. DNA synthesis occur with 5-3 polarity, whereas RNA synthesis occurs with 3-5 polarity
 - d. U replaces T as the complementary base for A in RNA synthesis

Contd 2

MCQ'S PREVIOUS PAPERS

SET - B :: 2 ::

- 6) The translation factor which helps in forming ternary tRNA methionine complex is
a. eIF2C
b. eIF4A
c. eIF4B
d. eIF3
- 7) Nucleosomes are a fundamental unit of DNA organization. It consists of histones complexed to DNA. Histone proteins present in nucleosomes are rich in which of the following amino acids
a. Histidine and lysine
b. Lysine and arginine
c. Arginine and histidine
d. Histidine and valine
- 8) Which out of the following is not a product of tyrosine metabolism
a. Melanin
b. Melatonin
c. Thyroxin
d. Epinephrine
- 9) Which one of these inhibit adenylyl cyclase
a. ACTH
b. ADH
c. Angiotensin II
d. Glucagon
- 10) Which is the major intracellular cation
a. Na⁺
b. K⁺
c. Ca²⁺
d. Mg²⁺
- 11) Normal anion gap metabolic acidosis is caused by
a. Cholera
b. Starvation
c. Ethylene glycol poisoning
d. Lactic acidosis
- 12) The major urinary buffer is
a. Bicarbonate
b. Phosphate
c. Protein
d. Hemoglobin
- 13) Marker enzyme for golgi complex is
a. Galactosyl transferase
b. Catalase
c. Glucose 6 phosphatase
d. None

Contd ... 3

MCQ'S PREVIOUS PAPERS

SET - B :: 3 ::

- 14) Which of the following is a negative phase reactant
a. C Reactive protein
b. Albumin
c. Fibrinogen
d. Ferritin
- 15) Plasmids contain a
a. Circular single stranded DNA
b. Linear single stranded DNA
c. Circular double stranded DNA
d. Linear double stranded DNA
- 16) Which of the following immunoglobulin crosses placenta
a. IgG
b. IgM
c. IgE
d. IgA
- 17) Which of the following activity is not seen in DNA polymerase I
a. 5' – 3' polymerase
b. 3' – 5 polymerase
c. 5' – 3' exonuclease
d. 3' – 5' exonuclease
- 18) Highly repetitive DNA is seen in
a. Telomere
b. Centromere
c. Both
d. None
- 19) Which enzyme defect is seen in Homocystinuria type I
a. Methionine synthase
b. Cystathione beta synthase
c. Cystathioninase
d. None of the above
- 20) All are involved in iron metabolism except
a. Hepcidin
b. Transthyretin
c. Ceruloplasmin
d. Ferroprotein

MCQ'S PREVIOUS PAPERS

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

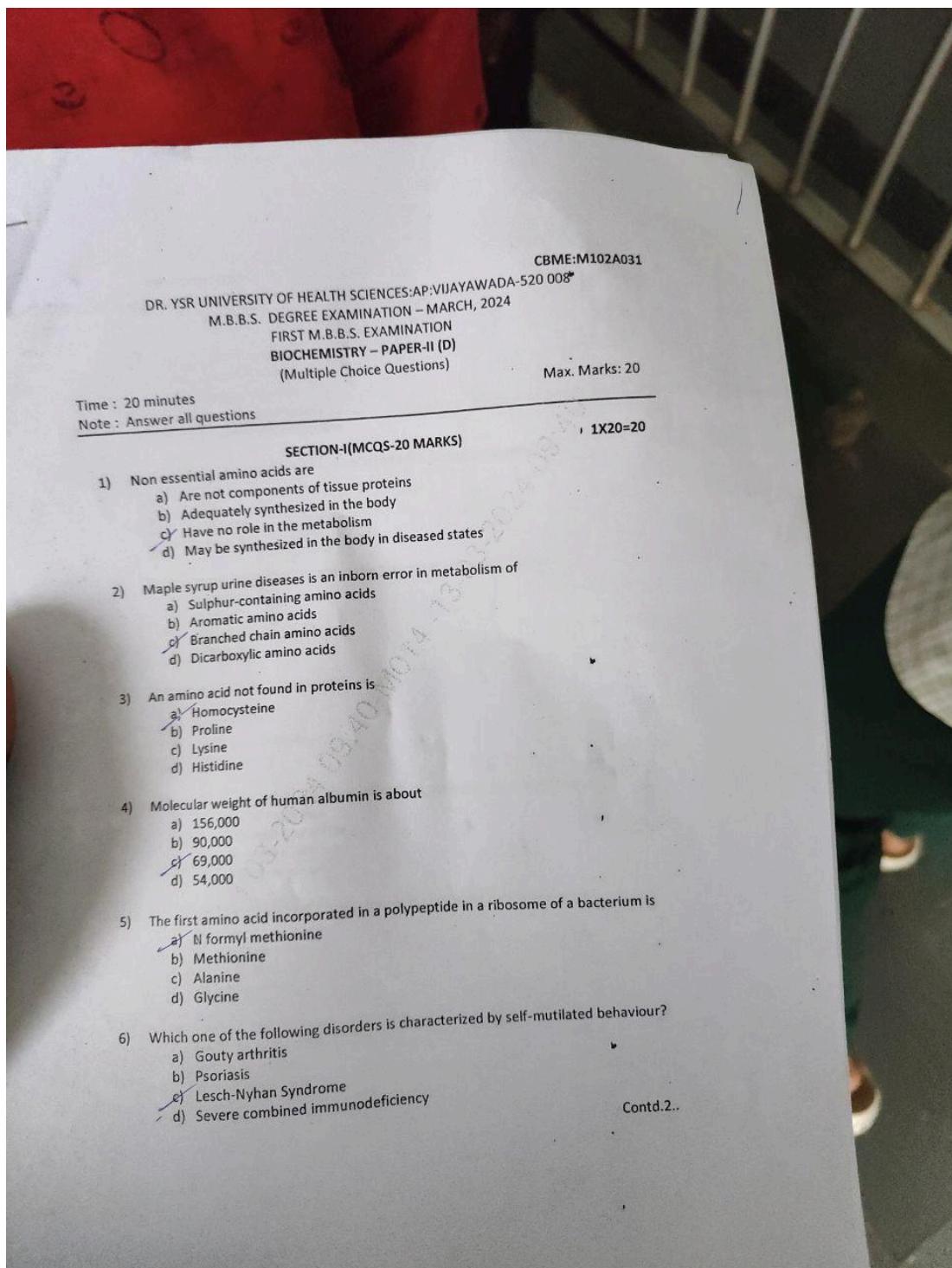
SET-B

BIOCHEMISTRY - II (Final key)

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

MCQ'S PREVIOUS PAPERS

2022 Batch (Instants)



MCQ'S PREVIOUS PAPERS

::2::

- 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

Contd3..

MCQ'S PREVIOUS PAPERS

- ::3::
- 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 aminoacid
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
- Date: 13/03/2024 Page No. 14

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-II			
	SET-A	SET-B	SET-C	SET-D
1)	A	C	ABCD	B
2)	B	ABCD	A	C
3)	ABCD	B	C	A
4)	C	A	B	ABCD
5)	A	C	A	A
6)	A	A	A	C
7)	A	A	C	A
8)	C	A	A	A
9)	B	D	B	B
10)	B	B	B	D
11)	B	B	D	B
12)	D	B	B	B
13)	B	C	A	A
14)	A	A	B	C
15)	A	A	C	B
16)	C	B	A	A
17)	B	A	C	A
18)	A	C	B	A
19)	C	A	A	B
20)	A	B	A	C

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-II (SET-B)

(Multiple Choice Questions)

17

Time : 20 minutes

Max. Marks: 20

Note : Answer all questions

SECTION -- I (MCQs- 20 MARKS)

1x20=20

1) Which of the following amino acid can give rise to a vitamin

- a. Tryptophan (Niacin)
- b. Proline
- c. Histidine
- d. Phenylalanine

2) Which amino acid does not undergo transamination

- a. Lysine
- b. Serine
- c. Glutamate
- d. Valine

3) The two nitrogen atoms of urea are delivered from

- a. Ammonia and arginine
- b. Ammonia and aspartate
- c. Ammonia and alanine
- d. Ammonia and creatinine

4) The amino acid which does not allow formation of alpha helix is

- a. Glutamate
- b. Glycine
- c. Aspartic acid
- d. Proline (Proline)

5) During Denovo synthesis of pyrimidine nucleotide which nucleotide is first synthesized

- a. IMP X
- b. OMP
- c. UMP X
- d. CMP

6) The drug of choice for treating primary gout is:

- a. Allopurinol
- b. Aspirin
- c. Tetracycline
- d. Colchicine

Contd 2

MCQ'S PREVIOUS PAPERS

:: B - 2 ::

- 7) The daily requirement of iron in adult is
a. 10-20 microgram X
b. 10-20 gram X
c. 0.1-0.5 mg X
d. 10-20 mg
- 8) Hyperparathyroidism is characterized by all the following except:
a. Osteoporosis
b. Hypercalciuria
c. Alkalosis
d. Recurrent urinary calculi formation
- (9) DNA finger printing is based on unique
a. Tandem repeats
b. Blood group
c. Mutagens
d. Coding sequence
- 10) Hemopexin carries
a. Free bilirubin
b. Free hemoglobin
c. Free heme
d. Free iron X
- 11) Which is not a transcription initiation signal?
a. CAAT box
b. Hogness box
c. Pribnow box
d. Homeo box
- 12) Nucleosome is
a. Alternate name for nucleolus
b. Promoter sequence for transcription
c. DNA-RNA complex present in nucleus
d. DNA wrapped around histones X
- 13) Causes of metabolic alkalosis includes all the following except: *
a. Continuous gastric aspiration
b. Ingestion of antacids
c. Prolonged vomiting
d. Hyperventilation X
- 14) Which of the following is not a contractile protein?
a. Tubulin
b. Actin
c. Desmosine
d. Dynen X

Contd ... 3

MCQ'S PREVIOUS PAPERS

:: B - 3 ::

- 15) Alpha fetoprotein level is increased in serum in
a. Hepatoma
b. Hyperthyroidism
c. Nephritis
d. Urinary tract infection
- 16) The following compounds can act as secondary messenger except:
a. Calcium ions
b. Inositol triphosphate (IP₃)
c. CAMP
d. 2,3 bisphosphoglycerate
- 17) ATP synthase is a marker enzyme present in
a. Golgi complex
b. Cytoplasm
c. Mitochondria
d. Lysosome
- 18) Peroxisomes are
a. Site of oxidative phosphorylation X
b. Site of protein synthesis X
c. Concerned with drug detoxification X
d. Involved in production of free radicals X
- 19) Oncogenes are activated by all, except:
a. Viral infection ✓
b. Promoter insertion X
c. Mutation in proto oncogene ✓
d. Reverse transcriptase ✓
- 20) Proximal Renal tubular acidosis is characterized by all except:
a. Anemia PTA
b. Urinary pH 4.5 ✓
c. Normal anion gap acidosis
d. Hyperchloremia

MCQ'S PREVIOUS PAPERS

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

SET-B

BIOCHEMISTRY - II (Final key)

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

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-II (SET C)
(Multiple Choice Questions)

Time : 20 minutes
Note : Answer all questions

Max. Marks: 20

SECTION – I (MCQs- 20 MARKS)

1x20=20

- 1) The amino acid found in protein structure
a. Arginine
b. Proline
c. Histidine
d. Lysine
- 2) Non protein amino acid is
a. Ornithine
b. Homocysteine
c. Histamine
d. All of them
- 3) The following nitrogenous base not present in DNA structure
a. Adenine
b. Guanine
c. Cytosine
d. Uracil
- 4) The bonds in protein structure that are not broken on denaturation
a. Hydrogen bonds
b. Peptide bonds
c. Ionic bonds
d. Disulfide bonds
- 5) Which is a sulfur containing essential amino acid
a. Methionine
b. Cysteine
c. Cystine
d. All of them
- 6) The following coenzyme is a nucleotide
a. FAD
b. NAD⁺
c. CoASH
d. All of them

Contd. 2

MCQ'S PREVIOUS PAPERS

::C- 2 ::

- 7) Iron in the mucosal cells binds with the protein
a. Transferrin
 b. Ferritin
c. Ceruloplasmin
d. Hemosiderin
- 8) Hemophilia A is due to the deficiency of clotting factor
a. X
b. V
 c. VIII
d. II
- 9) The only route through which H^+ ions are eliminated from the body
a. Lungs
b. Stomach
 c. Kidneys
d. None of them
- 10) Element that prevents the development of dental caries
 a. Fluorine
b. Calcium
c. Phosphorus
d. Sodium
- 11) The anion with highest concentration in the extracellular fluids is
 a. Cl^-
b. HCO_3^-
c. HO_4^{2-}
d. Protein
- 12) Fight, flight and fight hormone is
a. Thyroxine
b. Aldosterone
 c. Epinephrine
d. ADH
- 13) Mitochondrial DNA is inherited from
 a. Mother only
b. Father only
c. Both of them
d. Either mother or father
- 14) The anion gap refers to the unmeasured plasma anion concentration (in the laboratory) and is represented by
a. Proteins and organic acids
b. Phosphate and sulfate
c. Urate
 d. All of them

Contd. 3

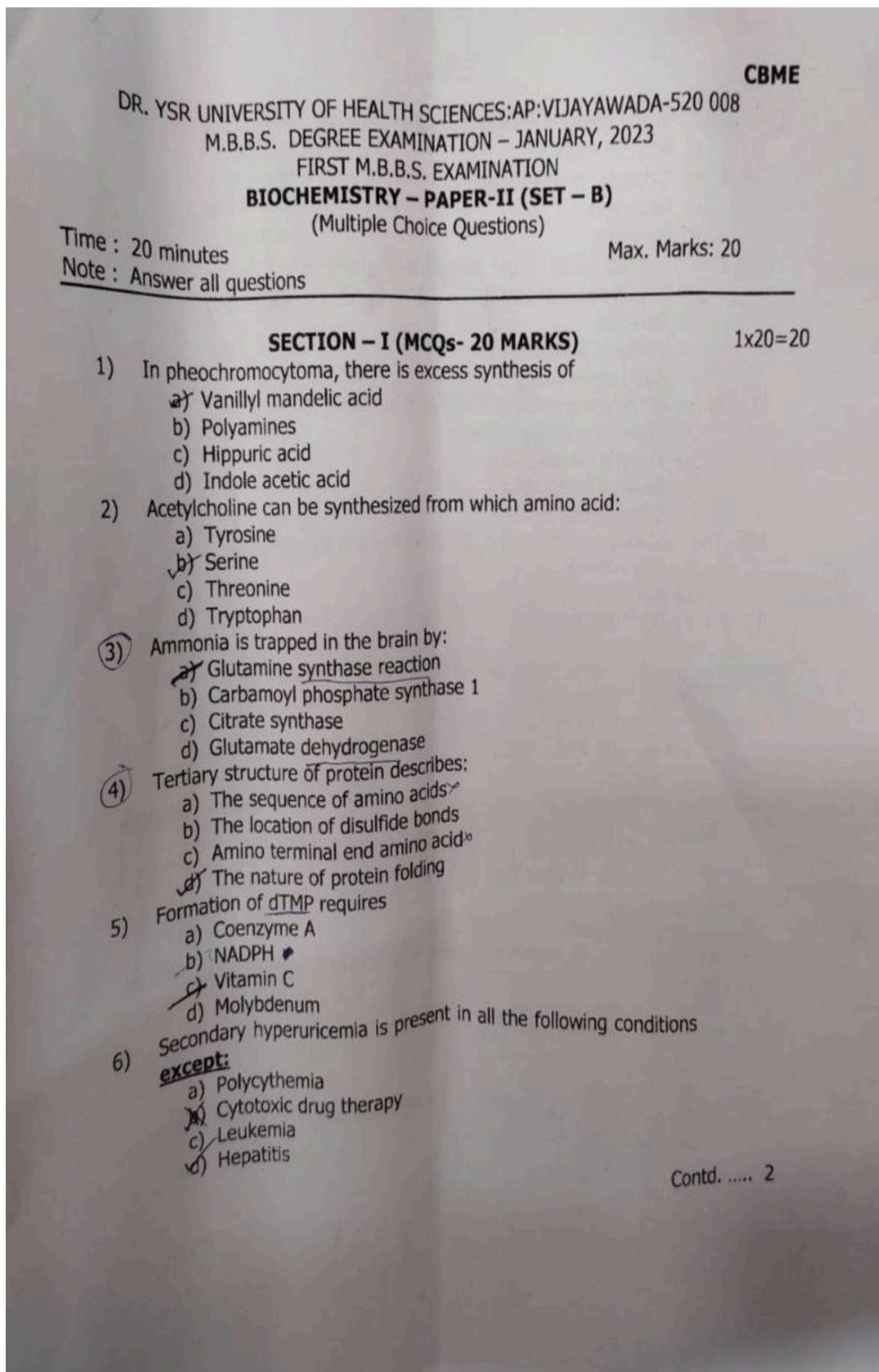
MCQ'S PREVIOUS PAPERS

(C- 3)

- 15) Methylation of DNA results in
a. Recruiting proteins involved in gene repression
 b. Inactivation of genes
c. No effect on genes
d. Inactivation of protein motifs
- 16) Enzyme that remove RNA primer during DNA replication is
a. Primase
b. DNA polymerase I
 c. DNA polymerase II
d. Ligase
- 17) As per WHO criteria, a person is said to be diabetic in oral glucose tolerance test (GTT)
 a. Fasting blood glucose exceeds 126 mg/dl, and 2 hours after OGTT goes beyond 200 mg/dl
b. Fasting blood glucose exceeds 86 mg/dl, and 2 hours after OGTT goes beyond 100 mg/dl
c. Fasting blood glucose exceeds 76 mg/dl, and 2 hours after OGTT goes beyond 92 mg/dl
d. None of the above
- 18) Carcinoembryonic antigen produced by the embryonic tissue of
a. Liver
b. Gut
c. Pancreas
 d. All of the above
- 19) Tetany is associated with the following condition
 a. Hypocalcemia
b. Hypercalcemia
c. Hyperparathyroidism
d. Renal rickets
- 20) HbA1c reflects the mean blood glucose level over ___ months period prior to its measurement
 a. 2
b. 5
c. 7
d. 8

MCQ'S PREVIOUS PAPERS

2021 Batch (Regular)



MCQ'S PREVIOUS PAPERS

:: B-2 ::

(7) Which of the below mentioned enzyme does not contain copper:

- a) Polycythemia
- b) Cytotoxic drug therapy
- c) Leukemia
- d) Hepatitis

8) Zinc is constituent of all the following enzymes except:

- a) Alkaline phosphatase
- b) Amylase
- c) Carbonic anhydrase ✓
- d) RNA polymerase ✓

9) Which of the enzyme listed below is heat stable?

- a) Restriction endonuclease
- b) Thermo thermophilus
- c) Reverse transcriptase
- d) Enterokinase

10) The following are the vectors for gene therapy except:

- a) Retrovirus ✓
- b) E. Coli
- c) Adenovirus ✓
- d) Liposome

11) Unusual nucleotide bases are found in significant quantity in:

- a) Messenger RNA
- b) Ribosomal RNA
- c) Transfer RNA
- d) snRNA

12) Denaturation of DNA is accompanied by all the following changes except:

- a) Hyperchromicity
- b) Increase in viscosity
- c) Unstacking of base
- d) Double helix structure

13) Administration of diuretics causes loss of potassium ions which can cause:

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

14) Hydroxylation occurs in which of the following amino acids in collagen:

- a) Threonine
- b) Alanine
- c) Lysine
- d) Tryptophan

MCQ'S PREVIOUS PAPERS

.. B-3 ..

- 15) Which of the following is due to Oncosuppressor mutation?
- a) Retinoblastoma
 - b) Hyperthyroidism
 - Cystic Fibrosis
 - d) Sickle cell disease

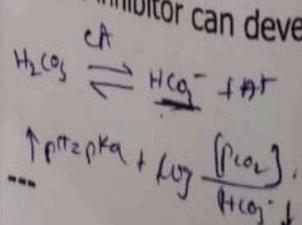
- 16) The uptake of iodine by thyroid gland is inhibited by:
- a) Fluoride
 - b) Perchlorate
 - c) Bromide
 - d) Chloride

- 17) The following is not an acute phase protein:
- a) CRP
 - b) Ceruloplasmin
 - c) HDL
 - d) Haptoglobin

- 18) Sodium potassium pump is inhibited by:
- a) Aspirin
 - b) Digoxin
 - c) Methotrexate
 - d) Rifampicin

- 19) Oncogenes are specific sequences in DNA:
- a) That are tumor markers
 - b) When expressed produce cancer
 - c) That code for reverse transcriptase
 - d) Required for DNA replication

- 20) Patients treated with carbonic anhydrase inhibitor can develop:
- a) Metabolic acidosis
 - b) Respiratory acidosis
 - c) Respiratory alkalosis
 - d) Metabolic alkalosis



MCQ'S PREVIOUS PAPERS

SET-B

BIOCHEMISTRY - II

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

MCQ'S PREVIOUS PAPERS

2020 Batch (Instants)

14 of 13

BIOCHEMISTRY - PAPER-II (Set 1) (Multiple Choice Questions)

Time : 20 Minutes

Max. Marks: 20

Note : Answer all questions

SECTION - I (MCQs- 20 MARKS)

1x20=20

✓ 1) Serine when decarboxylated will produce

- a. Putrescine
- b. Ethanolamine
- c. β Mercapto ethanolamine
- d. Histamine;

✓ 2) Which enzyme is an Exopeptidase

- a. Pepsin
- b. Carboxypeptidase
- c. Trypsin
- d. Chymotrypsin

✓ 3) The methyl donor in methyl transferase reaction

- a. Methyl cobalamin
- b. S- Adenosyl homocysteine
- c. Methyl malonyl coA
- d. S- Adenosyl methionine

✓ 4) Ammonia is trapped in brain by

- a. Glutamine reaction
- b. Urea synthesis cycle
- c. Glutamate dehydrogenase reaction
- d. Glutamine synthetase reaction

5) N₃ of purine ring is donated by

- a. Alanine
- b. Glutamate
- c. Glycine
- d. Aspartate

✓ 6) Tetany can result from all, EXCEPT

- a. Alkalosis
- b. Vitamin C deficiency
- c. Hypomagnesemia
- d. Hypocalcemia

MCQ'S PREVIOUS PAPERS

:: C-2 ::

7) Which amino acid is required for both purine and pyrimidine metabolism

- a. Glutamate
- b. Glycine ✓
- c. Aspartate
- d. Alanine

8) Fasting samples give lower values than post prandial samples for all parameters EXCEPT

- a. Glucose
- b. Cholesterol
- c. Phosphate ✓
- d. Triglycerides

9) The processing of mRNA involves

- a. Removal of introns ✓
- b. Translocation of mRNA into nucleus
- c. Capping at 5' terminus
- d. Poly A tail attachment ✓

10) Which nucleoside is found in DNA

- a. Inosine
- b. Pseudouridine
- c. Dihydrouridine
- d. Deoxythymidine ✓

11) Which is not true regarding genetic code

- a. Degenerate ✓
- b. Universal
- c. Ambiguous ✓
- d. Non overlapping ✓

12) Which enzyme protects DNA from ageing

- a. Telomerase
- b. DNA polymerase ✓
- c. Topoisomerase ✓
- d. Deoxyribonuclease

13) Which parameter is altered in congenital adrenal hyperplasia

- a. Estrogen
- b. Androgen ✓
- c. Thyroxine ✗
- d. 17-OH progesterone

MCQ'S PREVIOUS PAPERS

:: C-3 ::

14) The disease resulting from mutation in mitochondrial DNA is

- a. Leber hereditary optic neuropathy
- b. Zell Weger syndrome
- c. Jakob Creutzfeldt disease
- d. Xeroderma pigmentosum

15) Fluidity of cell membranes depend on

- a. Membrane pumps
- b. Nature of fatty acids
- c. Concentration of protein
- d. Glycosylation of proteins

16) Which enzyme is involved in degrading of CAMP

- a. Protein kinase
- b. Phosphorylase kinase
- c. Adenyl cyclase
- d. Glycogen Phosphorylase

17) Causes of metabolic alkalosis include following except

- a. Ingestion of antacids
- b. Prolonged vomiting
- c. Continuous gastric aspiration
- d. Hyperventilation

18) Phagocytosis involves

- a. Respiratory burst
- b. Endosmosis
- c. Lipid peroxidation
- d. Alpha oxidation

19) A patient treated with carbonic anhydrase inhibitor may develop

- a. Metabolic acidosis
- b. Metabolic alkalosis
- c. Respiratory acidosis
- d. Respiratory alkalosis

20) Keshan disease is due to deficiency of

- a. Selenium
- b. Magnesium
- c. Copper
- d. Chromium

MCQ'S PREVIOUS PAPERS

1st MBBS (BIOCHEMISTRY) - NR (Paper-II) - MAY- 2022

C

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

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-II (Set A)

(Multiple Choice Questions)

Time : 20 Minutes

Max. Marks: 20

Note : Answer all questions

SECTION – I (MCQs- 20 MARKS)

1x20=20

- 1) During urea cycle two nitrogen atoms are derived from
 - a) Ammonia and arginine
 - b) Ammonia and aspartic acid
 - c) Both from Ammonia
 - d) Ammonia and Ornithine
- 2) Ammonia is trapped in brain by
 - a) Glutamine Synthetase reaction
 - b) Glutaminase reaction
 - c) Urea Synthesis cycle
 - d) Glutamate dehydrogenase reaction
- 3) The Major Donor of Carbon Atoms to the One-Carbon Pool is
 - a) Serine
 - b) Tyrosine
 - c) Threonine
 - d) Proline
- 4) Which amino acid will give rise to major pigment of the body?
 - a) Histidine
 - b) Glutamic acid
 - c) Ornithine
 - d) Tyrosine
- 5) Homogentisic acid is excreted in urine in
 - a) Phenylketonuria
 - b) Maple syrup urine disease
 - c) Tyrosinosis
 - d) Alkaptonuria
- 6) Ochronosis is seen in
 - a) Phenyl Ketonuria
 - b) Alkaptonuria
 - c) Tyrosinosis
 - d) Albinism

Contd. 2

MCQ'S PREVIOUS PAPERS

SET – A :: 2 ::

- 7) The anti-coagulant found in the body
 - a) Potassium oxalate
 - b) Sodium Citrate
 - c) Heparin
 - d) EDTA
- 8) Hemopexin carries
 - a) Free hemoglobin
 - b) Free heme
 - c) Free bilirubin
 - d) Free iron
- 9) Administration of diuretics cause loss of potassium which may lead to
 - a) Metabolic acidosis
 - b) Respiratory acidosis
 - c) Respiratory alkalosis
 - d) Metabolic alkalosis
- 10) Which of the following conditions will produce high anion gap acidosis?
 - a) Diarrhea
 - b) Renal tubular acidosis
 - c) Renal failure
 - d) Uretero sigmoidostomy
- 11) ECF volume does not change with
 - a) ADH
 - b) Aldosterone
 - c) Calcitriol
 - d) Renin
- 12) The cation with lowest intra cellular concentration
 - a) Potassium
 - b) Magnesium
 - c) Sodium
 - d) Calcium
- 13) Which contains iron
 - a) Ceruloplasmin
 - b) Xanthine oxidase
 - c) Albumin
 - d) Superoxide desmutase
- 14) Which enzyme do not contain copper?
 - a) Cytochrome Oxidase
 - b) Superoxide dismutase
 - c) Xanthine oxidase
 - d) Tyrosinase

MCQ'S PREVIOUS PAPERS

SET – A :: 3 ::

- 15) The micro mineral present in teeth is
a) Calcium
b) Iodine
c) Fluorine
d) Manganese
- 16) Which of the following trace element has antioxidant role?
a) Chromium
b) Zinc
c) Selenium
d) Nickel
- 17) Sigma factor is
a) A sub unit of DNA polymerase
b) A sub unit of RNA polymerase
c) A sub unit of 50 S ribosome
d) responsible for initiation of replication
- 18) Intron is portion of
a) DNA that is cleaved off during replication
b) mRNA that is removed after transcription
c) tRNA that is added on after its synthesis
d) Protein removed after translation
- 19) Which hormone does not act at the level of transcription
a) Cortisol
b) Calcitriol
c) Aldosterone
d) Calcitonin
- 20) M band in serum protein electrophoresis
is seen in which condition?
a) Cirrhosis
b) Chronic infections
c) Multiple myeloma
d) Heavy chain disease

MCQ'S PREVIOUS PAPERS

1st MBBS (BIOCHEMISTRY) - NR (Paper-II) - JANUARY – 2022

A

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

MCQ'S PREVIOUS PAPERS