

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2024-2025)

FIRST PROFESSIONAL – (CBME)

PAPER II – BIOCHEMISTRY

Q.P. Code: 527056

Time: 20 Minutes

Maximum : 20 Marks

Answer All Questions

Shade the correct answer with Black or Blue ink ball point pen

SET - A

IV. Multiple Choice Questions:

(20 x 1 = 20)

- Which of the following is hydroxyl aminoacid
A) Threonine B) Histidine C) Leucine D) Isoleucine
- All of the following reagents are used in sequencing of proteins EXCEPT
A) Dansyl chloride B) Phenylhydrazine
C) Phenylisothiocyanate D) Cyanogen bromide
- Recombinant Human Insulin differ from bovine Insulin by
A) Biological activity B) Aminoacid sequence
C) Position of disulfide bonds D) Side chains
- A 45 year old software engineer vegetarian by diet goes for master health checkup, report shows elevated homocysteine levels. Hyperhomocysteinemia can occur in all the following Vitamin deficiency EXCEPT
A) Pyridoxine B) Cyanocobalamin C) Pantothenic acid D) Folic acid
- All are true about Lysine EXCEPT
A) An essential aminoacid B) Ketogenic
C) Deficient in Cereals D) Deficient in Pulses
- All of the following metabolic disorders are associated with mental retardation EXCEPT
A) Phenylketonuria B) Von Gierke's Disease
C) Maple syrup urine disease D) Morteaux Lamy Syndrome
- An adult male in 4th decade presented with severe low back ache. Oochronosis is seen in
A) Tyrosinemia B) Carcinoid syndrome C) Albinism D) Alkaptonuria
- Gastric acid secretion is stimulated by all EXCEPT
A) Gastrin B) Pepsin C) Vagal stimulation D) Histamine
- Proteinuria is not a feature in
A) Diabetes insipidus B) Multiple myeloma
C) Acute Glomerulonephritis D) Nephrotic syndrome

10. Renal stones may contain any of the following constituents EXCEPT
A) Uric acid B) Calcium C) Cholesterol D) Cystine
11. A 50 year old male presented with Chronic Renal Failure and investigated for the same. Which ion in serum is decreased in Chronic Renal Failure?
A) Potassium B) Phosphate C) Hydrogen D) Bicarbonate
12. Haptoglobin is a carrier of
A) Free iron B) Free heme C) Free hemoglobin D) Free bilirubin
13. Albumin is a transporter of the following compounds in plasma EXCEPT
A) Non esterified fatty acids B) Bilirubin C) Calcium D) Iron
14. Pick out the mismatched pair
A) Albumin and bilirubin B) Hemopexin and heme
C) Transthyretin and Thyroxine D) Transcortin and estrogen
15. Which of the following enzyme is involved in Phase II detoxification?
A) Cytochrome p450 B) N acetyl transferase
C) UDP glucuronyl transferase D) Alcohol dehydrogenase
16. A 65 year old male present with features of hyperuricemia secondary to a systemic disease. Secondary hyperuricemia is seen in all the following conditions EXCEPT
A) Leukemia B) Psoriasis C) Cytotoxic therapy D) Hepatitis
17. Which enzyme protects DNA from aging?
A) DNA polymerase B) Topoisomerase
C) Deoxyribonuclease D) Telomerase
18. Denaturation of DNA is accompanied by all changes EXCEPT
A) Increase in viscosity B) Hyperchromicity
C) Unstacking of bases D) Destabilisation of DNA helix
19. A baby born to a carrier mother exhibits symptoms of the disease. All of the following are inherited through X chromosome, EXCEPT
A) Sickle cell anaemia
B) Hemophilia
C) Glucose -6-Phosphate dehydrogenase deficiency
D) Duchenne type muscular dystrophy
20. When GAC is replaced by GAA, the result is
A) Silent mutation B) Deletion mutation
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SET - B

IV. Multiple Choice Questions:

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1. Recombinant Human Insulin differ from bovine Insulin by
A) Biological activity B) Aminoacid sequence
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SET - D

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SET - A

IV. Multiple Choice Questions:

(20 x 1 = 20)

1. All of the following are Glucogenic Aminoacids EXCEPT
A) Serine B) Aspartate C) Glycine D) Leucine
2. Which of the following is retained in denaturation?
A) Primary structure B) Secondary structure
C) Tertiary structure D) Quarternary structure
3. Lectins are
A) Animal proteins having specific aminoacid binding site
B) Plant proteins having specific carbohydrate binding site
C) Antibodies against cell membranes
D) Blood group substances
4. Exopeptidase among the following is
A) Trypsin B) Elastase C) Aminopeptidase D) Pepsin
5. The donor atoms of the one carbon pool include all EXCEPT
A) Glycine B) Tryptophan C) Histidine D) Valine
6. Serine when decarboxylated will produce
A) Ethanolamine B) Betamercapto ethanolamine
C) Inositol D) Putrescine
7. Urine of a young male gave a positive cyanide nitroprusside test. He had renal stones. He is likely to have
A) Hyperoxaluria B) Homocystinuria C) Cystinosis D) Hyperuricemia
8. Xanthurenic acid excretion in urine is seen in
A) Xanthine Oxidase deficiency B) Pyridoxine deficiency
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9. Which hormone has no effect on gastric secretion?
A) Cholecystokinin B) Secretin C) Gastrin D) Somatomedin

10. An elderly male came to Geriatric OPD with complaints of polyuria. Polyuria is seen in all the following diseases EXCEPT
A) Diabetes Mellitus B) Acute Glomerulonephritis
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11. All the following data are needed for calculating corrected creatinine clearance EXCEPT
A) Body surface area B) Plasma Creatinine and Urine creatinine
C) Urine pH D) Urine volume
12. Excretion of the following substance in urine is regulated by hormones
A) Sodium B) Bicarbonate C) Albumin D) Urea
13. A 50 year old male found to have generalized edema. His serum protein and albumin levels are very low. Hypoproteinemia is the cause for edema in all the following conditions EXCEPT
A) Cirrhosis B) Nephrotic syndrome C) Kwashiorkor D) Rheumatoid Arthritis
14. The anticoagulant which is produced endogenously is
A) Heparin B) Sodium Citrate C) Potassium Oxalate D) EDTA
15. Which of the following enzymes produce free radical in macrophages?
A) Superoxidase dismutase B) Catalase
C) Glutathione peroxidase D) Nitricoxide synthase
16. During denovo synthesis of pyrimidine, which nucleotide is first formed?
A) OMP B) UMP C) TMP D) CMP
17. Oroticaciduria is characterized by all EXCEPT
A) Megaloblastic Anemia B) Response to oral uridine
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18. A 45 year old male develops blisters on exposure to sunlight. His doctor advised him to avoid sunlight and explained his propensity to developing skin cancer. Which repair mechanism is defective in this patient?
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19. All are histone modifications EXCEPT
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20. A 60 year old male working in dye industry presented with features of Malignancy. Mutagenicity of a compound is checked by
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SET - B

IV. Multiple Choice Questions:

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SET - C

IV. Multiple Choice Questions:

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1. The anticoagulant which is produced endogenously is
A) Heparin B) Sodium Citrate C) Potassium Oxalate D) EDTA
2. Which of the following enzymes produce free radical in macrophages?
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C) Glutathione peroxidase D) Nitricoxide synthase
3. During denovo synthesis of pyrimidine, which nucleotide is first formed?
A) OMP B) UMP C) TMP D) CMP
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SET - D

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