

Q.P. CODE:500-B-CBME**DR. NTR UNIVERSITY OF HEALTH SCIENCES: AP:VIDAYAWADA -520 008****MBBS 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
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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

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

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