MBBS I (First) Professional Examination 2017-18

Course Code: MBS103 **Paper ID**: 0322242

Biochemistry -II

Time: 2 Hours 40 Minutes **Max Marks:** 40

Note: Attempt all questions. Draw proper diagrams to support your answer.

Part 'B'

1. Describe chemistry, sources, daily requirement, biochemical functions and deficiency manifestations of vitamin-D. (10)

2. Discuss the following: (5x2=10)
   a) Liver Function Tests
   b) Lac- Operon

3. Write short notes on the following: (2.5x4=10)
   a) Tumour markers
   b) Cytochrome P450
   c) Absorption of iron
   d) Balanced Diet

4. Differentiate between: (2x5=10)
   a) Acidosis and Alkalosis
   b) Fat soluble and water soluble vitamins
   c) PCR and Recombinant DNA technology
   d) Active and Passive immunity
   e) ELISA and RIA

MBBS I (First) Professional Examination 2017-18

Roll No. | | | | | | | | | | |

Student's Name

Student's Signature

Invigilator's Signature

Course Code: MBS103 **Paper ID**: 0322242

Biochemistry - II

Part 'A'

Time: 20 Minutes **Max Marks:** 10

Note: 1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes.
2. Please tick (√) correct one only. Cutting, overwriting or any other marking are not allowed.
3. For answering please use Ball- pen only.

Q.1 SDA is highest for:
a) Lipids
b) Proteins
c) Carbohydrates
d) Glucose

Q.2 Oedema occurs in:
a. Marasmus
b. Kwashiorkor
c. Both
d. None

Q.3 Element present in salivary protein Gusten:
a) Zinc
b) Iodine
c) Chromium
d) Selenium

Q.4 Dietary fibres helps in :
a) Motility of GIT
b) Reduce incidence of colon cancer
c) Decrease absorption of cholesterol
d) All of the above

Q.5 Ferroxidase activity is exhibited by:
a) Ceruloplasmin
b) Hemosiderin
c) Ferritin
d) Siderophilin -C

Q.6 Keshan disease is due to deficiency of:
a) Selinium
b) Manganese
c) Zinc
d) Fluorine

Q.7 Anion Gap in healthy adults is :
a) 20-25 mEq/L
b) 5-10 mEq/L
c) 12-18 mEq/L
d) 2.5-5.0 mEq/L

Q.8 In metabolic acidosis:
a) Decrease in plasma HCO_3
b) Increase in plasma HCO_3
c) Increased pCO_2
d) Decreased pCO_2

Q.9 The normal range of creatinine clearance is:
a) 120-135 ml/min
b) 80-90 ml/min
c) 180 ml/min
d) 75 ml/min.

Q.10 Proteins are identified by:
a) Western blotting
b) Eastern blotting
c) Southern blotting
d) Northern blotting

Q.11 Production of monoclonal antibodies in vitro is by:
a) PCR
b) Recombinant DNA technology
c) Hybridoma Technology
d) Blotting Technology

Q.12 Cancer causing factors includes:
a) Life Style
b) Occupation
c) Iatrogenic
d) All of the above

Q.13 In duodenal ulcer:
a) Basal acid output is elevated
b) Maximal acid output is elevated
c) Both are elevated
d) BAO and MAO are normal

Q.14 Tumour marker specific for ovarian cancer is:
a) Beta HCG
b) CEA
c) CA-125
d) AFP

Q.15 Phase –II reactions in metabolism of Xenobiotics involves:
a) Oxidation
b) Reduction
c) Hydroxylation
d) Conjugation

Q.16 Light chains in Immunoglobulins are of types:
a) kappa and lambda
b) alpha and beta
c) gamma and lambda
d) alpha and delta

Q.17 Methyl donor in detoxification by conjugation is:
a) S- adenosyl methionine
b) Glutathione
c) Phosphoadenosyl phosphosulfate
d) Acetyl Co A

Q.18 Natural antibodies are:
a) IgA
b) IgM
c) IgG
d) IgE

Q.19 Carpal tunnel syndrome is seen in deficiency of:
a) Pyridoxine
b) Thiamine
c) Niacin
d) Cyanocobalamine

Q.20 Burning feet Syndrome is manifestation of:
a) Folic acid deficiency
b) Pantothenic acid deficiency
c) Biotin Deficiency
d) Vitamin E deficiency