



**MID TERM ASSESSMENT**  
**FIRST YEAR MBBS – MCQs**

Total marks: 30

Time Allowed: 25 minutes

Dated : 12.06.2020

**Encircle one best answer.**

**Any cutting or overwriting will not be accepted and no marks will be given even if the answer is correct.**

<p><b>1 Quantitatively the most important buffer is :</b></p> <p>(a) Bicarbonate buffer (b) Protein buffer (c) Hemoglobin buffer (d) Phosphate buffer</p>	<p><b>2 Mutarotation refers to change in</b></p> <p>(a) Temperature (b) Chemical properties (c) Optical rotation (d) Solubility</p>
<p><b>3 Which of the disaccharides has <math>\beta</math> 1-4 linkage ?</b></p> <p>(a) Isomaltose (b) Maltose (c) Sucrose (d) Lactose</p>	<p><b>4 <math>\alpha</math>-D glucose and <math>\beta</math>-D glucose are :</b></p> <p>(a) Epimers (b) Anomers (c) Optical isomers (d) Enantiomers</p>
<p><b>5 Which of the following is a Heteropolysaccharide ?</b></p> <p>(a) Heparin (b) Dextrin (c) Dextran (d) Inulin</p>	<p><b>6 In Diabetes mellitus specific gravity of urine</b></p> <p>(a) Decreased due to excretion of glucose (b) There is no change in specific gravity (c) Increased (d) Decreased due to excretion of proteins in urine</p>
<p><b>7 Glucuronic acid has COOH group at</b></p> <p>(a) Carbon number 2 of glucose (b) Carbon number 1 of glucose (c) Carbon number 6 of glucose (d) Carbon number 4 of glucose</p>	<p><b>8 Which is the best answer in respect to epimer</b></p> <p>(a) Mannose is epimers of glucose (b) Galactose is epimers of glucose (c) Fructose is epimers of glucose (d) Both (a) and (b) are correct</p>
<p><b>9 Exoskeleton of insect is made up of</b></p> <p>(a) Cellulose (b) Starch (c) Dextran (d) Chitin</p>	<p><b>10 Which of the following is a ketopentose ?</b></p> <p>(a) Glycerol (b) Ribose (c) Xylulose (d) Fructose</p>
<p><b>11 Normal total protein level in blood is</b></p> <p>(a) 120-130 mg/100ml (b) 15-30 mg/100ml (c) 2-5 mg/100ml (d) 6-8 gm/100ml</p>	<p><b>12 Bence Jones proteins is observed in</b></p> <p>(a) Prostate cancer (b) Breast cancer (c) Lymphoma (d) Multiple myeloma</p>
<p><b>13 All of the following proteins are synthesized in Liver except</b></p> <p>(a) Albumin (b) Fibrinogen (c) Globulins (d) Immunoglobulins</p>	<p><b>14 With the increase in unsaturation (double bonds) melting point of fatty acids is</b></p> <p>(a) Decreased (b) Increased (c) No change (d) Both (b) and (c) are correct</p>

<p><b>15 Arachidonic acid is</b></p> <p>(a) 16 carbon saturated fatty acid  (b) 20 carbon saturated fatty acid  (c) 18 carbon unsaturated fatty acid  <b>(d) 20 carbon unsaturated fatty acid</b></p>	<p><b>16 Which of the following is glycerophospholipid?</b></p> <p>(a) Sphingophospholipid  (b) Ganglioside  <b>(c) Plasmalogen</b>  (d) Cerebroside</p>
<p><b>17 Precursor of bile acids is</b></p> <p>(a) Arachidonic acid  <b>(b) Cholesterol</b>  (c) Heme  (d) Vitamin-C</p>	<p><b>18 Secondary bile acids are formed from primary bile acids in</b></p> <p>(a) Liver  <b>(b) Intestine</b>  (c) Stomach  (d) Lungs</p>
<p><b>19 Which of the following is a non-standard amino acid</b></p> <p>(a) Alanine  <b>(b) Citrulline</b>  (c) Hydroxy proline  (d) Methionine</p>	<p><b>20 Which of the following is a modified amino acid</b></p> <p><b>(a) Hydroxy Lysine</b>  (b) Cysteine  (c) Tryptophan  (d) Ornithine</p>
<p><b>21 Which of the following is an OH containing essential amino acid</b></p> <p>(a) Tyrosine  (b) Serine  (c) Arginine  <b>(d) Threonine</b></p>	<p><b>22 When Km value of an enzyme is low it reflects</b></p> <p>(a) Low affinity of the enzyme for the substrate  <b>(b) High affinity of the enzyme for the substrate</b>  (c) Change in Km value does not affect reaction rate  (d) Both "a" and "c" are correct</p>
<p><b>23 Which of the following protein is present in association with nucleic acid</b></p> <p>(a) Keratin  <b>(b) Histones</b>  (c) Albumin  (d) Collagen</p>	<p><b>24 The apoprotein of chylomicrons is</b></p> <p><b>(a) Apo-B-48</b>  (b) Apo-A-1  (c) Apo-B 100  (d) Apo E</p>
<p><b>25 Highest concentration of Cholesterol is present in</b></p> <p><b>(a) LDL</b>  (b) VLDL  (c) HDL  (d) Chylomicrons</p>	<p><b>26 Which of the following is a non-essential amino acid</b></p> <p>(a) Lysine  (b) Leucine  (c) Valine  <b>(d) Proline</b></p>
<p><b>27 Unpleasant taste and odour in fats can be prevented by adding</b></p> <p>(a) Vitamin-K  <b>(b) Vitamin-E</b>  (c) Vitamin-D  (d) Vitamin-B</p>	<p><b>28 When one fatty acid is removed from Lecithin it is converted to</b></p> <p>(a) Dipalmityl lecithin  (b) Phospho lecithin  <b>(c) Lysolecithin</b>  (d) Cephalin</p>
<p><b>29 Ceramide is composed of</b></p> <p>(a) Glycerol and fatty acid  (b) Glycerol and phosphate  (c) Sphingosine and phosphate  <b>(d) Sphingosine and fatty acid</b></p>	<p><b>30 Molecular formula of Cholesterol is</b></p> <p>(a) C<sub>28</sub> H<sub>48</sub> OH  (b) C<sub>26</sub> H<sub>47</sub> OH  <b>(c) C<sub>27</sub> H<sub>45</sub> OH</b>  (d) C<sub>27</sub> H<sub>47</sub> OH</p>