

BRAINWARE UNIVERSITY

Term End Examination 2018 -19

Programme - Bachelor of Pharmacy

Course Name - Biochemistry

Course Code - BP203T

(Semester - 2)

Elbrary

Plarmaceutical Technology
Brainware University
Barasat, Kolkata-700125

Time allotted: 3 Hours

Full Marks: 75

 $20 \times 1 = 20$

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group -A

| | | (Multiple Che | oice Type (| Question) | |
|--|------|---------------------------------|-------------|-----------------------|--|
| | | e the correct alternative from | the followi | ing | |
| | a. | Triose | b. | Pentose | |
| | c. | Tetrose | d. | Hexose | |
| He | pari | in is a | | | |
| | a. | Monosaccharide | b. | Disaccharide | |
| | ¢. | Mucopolysaccharide | d. | Heteropolysaccharide | |
| Wł | nich | of this is an essential amino a | acid? | | |
| | a. | Histidine | b. | Lysine | |
| | c. | Leucine | d. | All of the above | |
| Proteins are precipitated by adding | | | | | |
| | a. | Water | b. | Sodium hydroxide | |
| | c. | Formaldehyde | d. | Trichloro acetic acid | |
| One example of sulphur containing amino acid is: | | | | | |
| | a. | Aspartate | b. | Cysteine | |
| | c. | Serine | d. | Tyrosine | |
| Cholesterol consists of | | | | | |
| | a. | 27 carbon atoms | b. | 30 carbon atoms | |
| | C. | 14 carbon atoms | d. | 35 carbon atoms | |

| (vii |) Oxidoreductase include enzymes: | | |
|--------|--|--|--|
| (viii | a. Which are concerned with oxidation and reduction c. Catalyse hydrolysis Acid phosphatase level is increased | b. Catalyse the transfer of a groupd. None of the abovein: | |
| (ix) | a. Rickets c. Prostate cancer Ceruloplasmin level is decreased in: | b. Diabetes d. Kidney failure | |
| (x) | a. von Gierke's diseasec. DiabetesMilk sugar is known as: | b. Wilson's diseased. None of the above | |
| (xi) | a. Lactose c. Glucose Which of the following drugs is used | b. Galactose d. Sucrose for the treatment of gout? | |
| (xii) | a. Allopurinol c. Penicillin Which type of RNA is responsible for a. mRNA | b. Timolol d. Nimesulide e for transfer of amino acids for protein biosynthesis? | |
| (xiii) | c. rRNA The length of each turn of a helix in E a. 3.4 nm | b. tRNA d. None of the above ONA is: | |
| (xiv) | c. 5 nm Which lipoprotein fraction is good for a. LDL | | |
| (xv) | c. HDL Which of the following inhibits eukary | b. VLDL d. None of the above votic protein synthesis? | |
| (xvi) | a. Streptomycin c. Diptheria toxin Sucrose is made up of | b. Tetracycline d. None of the above | |
| (xvii) | a. Glucose and fructose c. Fructose and Ribose Histamine is obtained from | b. Glucose and ribose d. None of the above | |
| | a. Serine c. Valine | b. Histidine d. Tyrosine | |

| (xv | iii) Which of the following is an esser | | | | | | |
|---|---|---|----------------------|--|--|--|--|
| | a. Valine | a. Serine | a. Serine | | | | |
| | c. Alanine | c. None of the above | c. None of the above | | | | |
| (xi | (xix) The synthesis of glucose from non-carbohydrate precursors is termed as | | | | | | |
| | a. Glycolysis | b. Glycogenesis | 15 | | | | |
| | c. Gluconeogenesis | d. Glycogenolysis | Pharma | | | | |
| (x: | Brainware University Barasat, Johnstea 706 125 | | | | | | |
| | a. Glycolysis | b. Glycogenesis | W 25 106 21) | | | | |
| | c. Gluconeogenesis | d. Glycogenolysis | | | | | |
| | G | roup – B | | | | | |
| | (Short Ans | $7 \times 5 = 35$ | | | | | |
| Ans 2. 3. 4. 5. 6. 7. 8. 9. 10. | Write a short note on function of lipid Write a short note on essential fatty at What are saponification number and a Give an outline of bile acid synthesis Write a short note on fatty liver. Write a short note on hypercholestero Write a short note on Alkaptonuria Write a short note on inhibitors of prower write a short note on inhibitors of prower write short notes on enzyme induction. | 5 5 5 5 5 5 5 5 5 | | | | | |
| | Gı | roup – C | J. | | | | |
| | (Long Ans | $2 \times 10 = 20$ | | | | | |
| Answer any <i>two</i> from the following 11. Define Glycolysis. Give an outline of glycolysis with the help of a schematic 2+8 diagram. 12. Describe the structure of DNA with the help of a diagram. 13. Explain enzyme kinetics with the help of Michaelis Menten plot and Lineweaver 10 Burke plot. | | | | | | | |