



MODULE EXAM - 2021
1st YEAR MBBS – SEQs

Total marks: 70

Time allowed: 2.5 hours

Attempt all questions

Dated: 28.5.21

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1.
 - a. What is asymmetric carbon atom? Explain D&L forms with examples (5)
 - b. Write a note on mutarotation (5)

 2.
 - a. Give occurrence, structure and physiological function of starch and cellulose (5)
 - b. What are heteropolysaccharides? Mention structures, occurrence and importance of hyaluronic acid and chondroitin sulfate. (5)

 3.
 - a. Why hydrolysis of sucrose is known as inversion? (5)
 - b. What is optical isomerism? Mention dextro and levorotatory sugars. (5)

 4.
 - a. Write down the structural classification of amino acids with suitable examples. (5)
 - b. Name the semi-essential amino acids. Why are they called as semi-essential? (5)

 5.
 - a. Name different types of secondary structure present in proteins. Explain any one of them. (5)
 - b. Compare globular and fibrous proteins with suitable examples. (5)

 6.
 - a. Classify proteins depending on their biologic functions along with examples. (5)
 - b. What are the different types of immunoglobulins? Draw and label the general structure of immunoglobulin. (5)

 7. Write short notes on the following:
 - a. Sickle cell anemia (2.5)
 - b. Thalassemia (2.5)
 - c. Denaturation of proteins (2.5)
 - d. Electrophoresis (2.5)