Salahaddin University – Erbil Subject: Practical Biochemistry

College of Agriculture Time : 1 hour

Food Technology Dept. Final Examination (2021-2022) 2ndFood Technology Students

 Date: 26 / 4/ 2022



**Q1/ Define the followings:** (25 marks)

carbohydrate:

Benedict test:

reducing sugar:

 Disaccharide:

Osazones:

**Q2/ Fill the blanks with appropriate answer: (18 marks)**

1-Anilinetest is used for identification of ------------- -----------sugar.

2-Fehling B solution composed of -------------------------- .

3- Carbohydratescan be divide into -----------------, ---------------- and ------------------.

4-Dunstan's test used for the --------------------------------------- .

**Q3/ Write the chemical structure of the followings:(only five) (25 marks)**

(orcinol, picric acid ,Ribulose, Sucrose, fructose, anthrone )

**Q4/A/Explain Why?**

1. Sucrose gives a positive result with Selivanoffs test? (5 marks)
2. D-fructose and D-mannose give the same osazone as D-glucose? (5 marks)

**Q4/B/**what is the difference between Benedict's and Barfoed's test? (7 marks)

**Q5/ Draw the table and fill each spaces with(+ ve) for positive result or (-ve )for negative result: (15 marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **Tests** | **Glucose**  | **Sucrose**  | **Ribose**  |
| **1-** | **Molish**  |  |  |  |
| **2-** | **Mucic acid**  |  |  |  |
| **3-** | **Bail** |  |  |  |
| **4-** | **Fehlling**  |  |  |  |
| **5-** | **Anthron**  |  |  |  |

Lecturer

Shno S. Mohammed