

SRR & CVR GOVT. DEGREE COLLEGE (A) VIJAYAWADA

DEPARTMENT OF BIOCHEMISTRY



Quiz-I

III BSc (MBC) 2017-2018

Semester-V

Dated: 26-08-2017



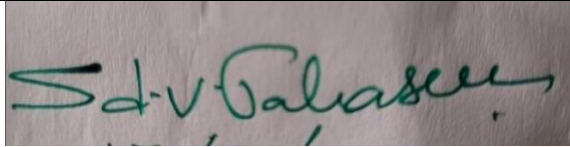
Topic: BIOMOLECULES

SRR & CVR GOVT. DEGREE COLLEGE (A) Vijayawada

Department of Biochemistry

Activity Register 2017-2018

Date	26-08-2017
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.)	Department of Biochemistry
Nature of Activity (Seminar/Workshop/Extn. Lecture etc.,)	Quiz On Carbohydrates and Lipids
Title of the Activity	Quiz For III B.Sc. MBC
Name of the Department/Committee	Department of Biochemistry
No. of students participated	19

Brief Report on the activity	A quiz was conducted among the III BSc Students in BIOCHEMISTRY Department. The Class was divided into two groups. Total Questions:20 Group A:10 and Group B:9 Quiz Master: 01 Winners are Group B
Name of the Lecturers who Planned & conducted the activity	Sd.V.Tahaseen
Signature of the Dept. In-Charge/Convener of the Committee	
Remarks	

S.NO	Name of the Student	
	Group A	Group B
1	B.Siva	Sd. Gousia
2	B.Reena	M.Earnest
3	K.Bhargavi	M.Sravani
4	G.Santhi	N.Siva
5	L.Latha	M.Nandini
6	J.Sandhya	B.Krupani
7	k.suneetha	R.Santhi jyothi
8	k.sai kali	SK.Shakila
9	k.leela prasad	T.Sirisha
10	L.Nitin	

Quiz Questions

①

Multiple choice questions.

Carbohydrates -

1. Ribose and deoxyribose differ in structure around a single carbon, namely (b)
(a) C₁ (b) C₂ (c) C₃ (d) C₄
2. One of the following is not an aldose. (d)
(a) Glucose (b) Galactose (c) Mannose (d) Fructose.
3. The glycosaminoglycan that serves as an anticoagulant. (a)
(a) Heparin (b) Hyaluronic acid (c) Chondroitin sulfate
(d) Dermatan sulfate
4. The following polysaccharide is composed of β -glycosidic bonds. (d)
[$\beta(1 \rightarrow 4)$]
(a) starch (b) Amylopectin (c) Dextrin (d) cellulose.
5. The carbon atoms involved in the osazone formation (a)
(a) 1 and 2 (b) 2 and 3 (c) 3 and 4 (d) 5 and 6.

LIPIDS

② Multiple choice questions

- 1) The nitrogenous base present in lecithin (a)
(a) choline (b) Ethanolamine (c) Inositol (d) serine
- 2) The number of double bonds present in arachidonic acid (c)
(a) 1 (b) 2 (c) 3 (d) 4
- 3) One of the following is an amphipathic lipid. (d)
(a) phospholipids (b) fatty acid (c) bile salts
(d) All of the ~~two~~ Above.
- 4) Esterification of cholesterol occurs at carbon positions (c)
(a) 1 (b) 2 (c) 3 (d) 4
as at third carbon -OH is present
- 5) Name the test employed to check the purity of butter through the estimation of volatile fatty acids. (b)
(a) Iodine number (b) Reichert - Meissl number
(c) Saponification number (d) Acid number.

RM no. is defined as the no. of ml. of 0.1N KOH required to completely neutralize the soluble volatile fatty acids from 5g. fat.

Volatile fatty acids: - butyric, Caproic and Caprylic acid

RM no. for butter: 25-30

< 1 for edible oils.

(1)
Fill in the blanks.

Carbohydrates

1. Name a non-reducing disaccharide Sucrose, Trehalose.
2. The Carbohydrate that is taken as a reference for writing the configuration of others Glyceraldehyde.
3. If two monosaccharides differ in configuration around a single carbon atom, they are known as Epimers.
4. The α - and β -cyclic forms of D-Glucose are referred to as anomers.
5. The non-carbohydrate moiety found in glycosides is known as aglycone.
6. Give an example of a glycoside antibiotic Streptomycin.
7. The glycosidic bonds at the branching points in the structure of starch are $\alpha(1\rightarrow6)$ glycosidic bonds.
[and $\alpha(1\rightarrow4)$ linkages everywhere else]
8. The polysaccharide employed for the assessment of kidney function Inulin.
9. The glycosaminoglycan that serves as a lubricant and shock absorber of joints Hyaluronic acid.
10. Name the sialic acid, mostly found in the structure of glycoproteins and glycolipids. N-acetylneuraminic acid (NANA)