

A Charutar Vidya Mandal's institution
V.P. & R.P.T.P SCIENCE COLLEGE
(ATONOMOUS) (Grant-in-Aid) Affiliated to Sardar Patel University
VALLABH VIDYANAGAR-388120
Bachelor of Science (Semester 1) EXTERNAL EXAMINATION- 2024
US01MABOT01 (BOTANY) (Biomolecules and Cell biology)

Time: 11.00 AM to 1.30 PM

Marks:-50

Date: 19/11/2024 Day: Tuesday

Q-1 MULTIPLE CHOICE QUESTIONS

(10)

(1) Cellulose is the polymers of _____.

- (a) Glucose (b) Amino acid (c) Fatty acid (d) None of these

(2) Example for 'Fructosan' is _____.

- (a) Inulin (b) Glycogen (c) Chitin (d) Galactose

(3) The sugar found in DNA is _____.

- (a) Deoxyribose (b) Ribose (c) Galactose (d) Glucose

(4) Left handed DNA is _____.

- (a) B-DNA (b) C-DNA (c) Z-DNA (d) E-DNA

(5) The non-protein part of enzyme is called _____.

- (a) Holoenzyme (b) Isotype (c) Co-factor (d) Apoenzyme

(6) Cell wall is mainly composed of _____.

- (a) Lipid (b) Starch (c) Cellulose (d) Protein

(7) The term 'Cell' was given by _____.

- (a) Robert Brown (b) Mendel (c) Robert Hook (d) Fisher

(8) Photosynthesis is carried out by _____ organelle.

- (a) Chloroplast (b) Nucleus (c) Cell wall (d) Mitochondria

(9) Which organelle is known as 'power house' of cell?

- (a) Chloroplast (b) Golgi body (c) Mitochondria (d) Lysosome

(10) The division of nucleus is called _____.

- (a) Karyokinesis (b) Cytokinesis (c) Plasmolysis (d) All of these

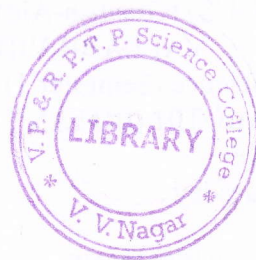


Q-2 Describe in detail about monosaccharides. (10)

OR

Q-2 Explain: (a) Denaturation of Protein (05)

(b) Functions of Lipid. (05)



Q-3 Describe classification of enzyme in detail. (10)

OR

Q-3 Describe: (a) Lock and Key hypothesis. (07)

(b) Chargaff's rule. (03)

Q-4 Describe: (a) Structure of Nucleus. (05)

(b) Structure of cell wall (05)

OR

Q-4 Explain: (a) Types of chromosome. (05)

(b) Functions of plasma-membrane (05)

Q-5 Explain the ultrastructure and function of chloroplast with diagram. (10)

OR

Q-5 Explain the different stages of mitosis in detail. (10)