

SEAT No. \_\_\_\_\_

No. of Printed Pages: 4

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ETH

SARDAR PATEL UNIVERSITY  
B. Sc. 1st (CBCS) EXAMINATION  
SATURDAY 30th JANUARY 2021  
TIME 2:00 PM - 4:00 PM  
SUBJECT / COURSE BOTANY (USO1CBIO-21)  
CELL BIOLOGY BIODIVERSITY

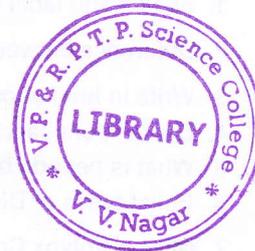
Marks : 70

Draw neat and labelled diagram wherever necessary

Q1 MULTIPLE CHOICE QUESTION

(10)

1. Main function of granular Endoplasmic reticulum is synthesis of  
(a) Fats (b) Pigments (c) Carbohydrates (d) Protein
2. The finger like projection in Mitochondria are called  
(a) Cristae (b) Vesicle (c) Lamellae (d) Cisternae
3. Cellulose is a -----  
(a) Polysaccharides (b) Oligosaccharides (c) Monosaccharides (d) Protein
4. The numbers of double bond present in Linoleic acid  
(a) 4 (b) 3 (c) 2 (d) 1
5. Bacterial cell wall is made up of  
(a) Pectose (b) Lignin  
(c) Chitin (d) Peptidoglycan
6. The fungus frequently growing on bread is  
(a) Agaricus (b) Rhizopus (c) Yeast (d) Penicillium
7. Cycas is an example of  
(a) Mesophytes (b) Hydrophytes (c) Xerophytes (d) Halophytes
8. In fern, group of sporangium forms  
(a) Strobilus (b) Sorus (c) Capsule (d) Sporangiphore
9. Cyst of Entamoeba spread by  
(a) House fly (b) Mosquito (c) Bed bug (d) Mouse
10. Madreporite is associated with  
(a) Canal system (b) Blood vascular system  
(c) Water vascular system (d) Digestive system



(1)

(P.T.O)

Q- 2 Fill in the blanks.

(08)

- 1) The function of Photosynthesis is carried out by \_\_\_\_\_.
- 2) Water soluble carbohydrates is known as \_\_\_\_\_.
- 3) Bacteria without flagella are known as \_\_\_\_\_.
- 4) Amoeba belongs to phylum \_\_\_\_\_.

True or False

- 1) Polytene chromosomes found in the salivary gland of Drosophila.
- 2) The common form of sugar in fruit is Fructose.
- 3) The sporophyte of Riccia is represented by Capsule.
- 4) We can get pearl from Molluscs.

Q-3 Answer the following (any ten)

(20)

1. Sketch and label Chloroplast.
2. Difference between Plant cell and Animal cell.
3. Write in brief about types of Ribosomes.
4. Define Monosaccharides.
5. What is peptide bonds ?
6. Enlist types of DNA
7. What is Volvox Coenobium?.
8. Types of Rhizoids and their function in Riccia.
9. Sketch and label fern sporangium.
10. Write characters of Protozoa.
11. Draw Tape worm.
12. Write the functions of water vascular system.



Q 4 Long Answer (Attempt any four)

(32)

1. Describe the structure and function of Mitochondria.
2. Explain different stages of Mitosis.
3. List the type of RNA and describe in detail about tRNA.
4. Write a note on classification of Lipid with suitable example
5. Describe Bacteriophage with diagram .
6. Explain internal structure of Cycas leaflet with suitable diagram.
7. Describe metamorphosis in insects.
8. Describe economic importance of Molluscs.

(2)

(P.T'0)