

[16] TATNO.

No. of Pages-2

## SARDAR PATEL UNIVERSITY B.Sc 1<sup>st</sup> SEMESTER EXAMINATION WEDNESDAY, 24<sup>th</sup> OCTOBER, 2018

Time - 2:00 pm to 5:00 pm

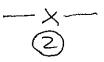
Subject / Course Code : BIOLOGY ( US01CBIO21) (CELL BIOLOGY AND BIODIVERSITY)

Maximum Marks:70

Draw neat and labeled d	agrams wherever necessary.
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Q. 1 MULTIPLE C	HOICE QUESTIONS are arranged on ea		(10)
(a) Metaphase	(b) Prophase	(c) Anaphase (d)	Telophase
2. F <sub>1</sub> particles are p	resent in		
(a) Mitochondria	(b) Chloroplast	(c) Nucleus	(d) Dictyosome
3. Which one is kn	own as suicidal bag	g's ?	
(a) Chloroplast 4. The number of c (a) 1			
5. is e		milk sugar	) Fructose
6. The fungus freq (a) Agaricus		read is (c) Yeast	(d) Penicillium
7. Bacterial cell wa (a) Peptidoglyc	ll is made up of an (b) Chitin	(c)Lignin (d)	Pectose
8. Coralloid roots (a) Cotton	are present in (b) Cycas (c)	Pinus (d) Sun	flower
9. Malaria is caused (a) Filarial wort		nosquito(c)Plasmod	lium (d)Male culex mosquito
10 an ex	cample of social life	in insects	
(a) Mosquito	(b)Cockroach	(c)Honey bee	(d)None of these
		(1)	(P.T.O.)

(). 2 Answer the following questions in brief (any ten)	(20)	
1 .Write in brief about types of Ribosomes		
2. What is middle lamella?		
3. Sketch and label Mitochondria		
4. Explain – Peptide bond		
5. What is Essential fatty acids?		
6. Write about sugars present in nucleic acids		
7.Sketch and label Fern sporangium		
8. What is Volvox coenobium?		
9. Define- Conjugation in Bacteria	•	
10. What is multiple fission?		
11. What is metamorphosis?		
12. Write prevention of Amoebiasis (amoebic dysentery)		
(). 3 Describe		
(a) Structure and functions of Chloroplast	(05)	
(b) Types and functions of Endoplasmic reticulum	(05)	
OR		
Q.3 Write notes on	(06)	
(a) Types of Lysosomes	(06)	
(b) Types of chromosome based on position of centromere	(04)	
Q. 4 (a) Explain Structure of DNA	(05)	
(b) Write a note on monosaccharides	(05)	
OR		
Q. 4 (a)Explain classification of lipids	(05)	
(b)Describe non- covalent bond responsible for protein structure	(05)	
Q. 5 Describe internal structure of Cycas leaflet with diagram	(10)	
OR	(05)	
(). 5 (a) Write a note on Bacteriophage	(05)	
(b) Explain classification of Bacteria based on shapes and flagella	(00)	
Q. 6 (a) Describe water vascular system in echinoderms	(06)	
(b) Write general characters of phyllum Protozoa	(04)	
OR		
(). 6 (a) Write about Benificial molluses	(06)	
(b) Describe metamorphosis in insects	(04)	



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