Seat No.		To the second se	No. of printed page: 02
1007		PATEL UNIVERSIT	TY
106		.Sc. 5 <sup>th</sup> Semester	
		ANY: US05CBOT21	
		LOGY AND PHYCOI	
Date : 3 /11/2021 Day : Ju@5day	23/11/21 Tyesday	and print the state of the same of the sam	Time: 3:00 pm to 5:00 pm Total Marks: 70
Note: Draw neat	and labeled diagran	ns wherever necessary	
Q. 1 Multiple Cho	ice Questions (Atte	empt all)	(10)
	is composed of know (b) Synthetic		d is called medium. (d) Selective
	getting pure cultur (b) Agar slant	e is method.  (c) Both a & b	(d) None of the these
	used as solidifying (b) Silica gel	agent for media prepa (c) Gelatin	(d) All of the above
(a) Mode of re	differs from Eubac production rane structure	(b) Mode of nutrition	on
	g flagella all over the		(d) None of these
6. Which of the fo	llowing enzyme is n (b) GOGAT	ot present in the heter (c) Glutamine synth	ocyst netase (d) All of these
		in the root of <i>Cycas</i> _ (c) Both a & b	(d) None of the these
8. The pigment pr (a) Chlorophyl	resent in blue green ll-b (b) c- phycocya	algae is nin (c) Chlorophyll -	c (d) All of these
9. An alga growin (a) Epiphyte	ng on snail is called: (b) Endophyte		(d) Endozoic
10. Motile cells ar (a) Red algae	re completely absen (b) Blue green al	t inlgae (c) Both a & b	(d) None of these [PTO]
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Q. 2 Fill in the blanks / True or False:	(08)			
(1) Staining material of gram positive Bacteria is	. (Crystal violet/ Safranin)			
(2) Viruses can multiply incells.	(dead/living)			
(3) Cell structure of cyanophyceae is	(prokaryotic / eukaryotic)			
(4) Motile asexual flagellated cells are called	(gametes / zoospores)			
(5) Agar is obtained from red algae.	(True/False)			
(6) N acetyl muramic acid is found as cell wall component of	of bacteria. (True/False)			
(7) M. O. P. Iyenger was a mycologist.	(True/False)			
(8) Chlorophyceae store food material in the form of oil dro	oplets. (True/False)			
Q. 3 Short questions (Attempt any 10 out of 12)	(20)			
1. Write flame sterilization.				
2. What is pesteurization?				
3. Write difference between gram positive and gram neg	rativa kartasi			
	gative pacteria.			
4. Define binary fission.				
5. Write difference between Prions and Virion.				
6. What is photoautotrophic and chemoautotrophic?				
7. Define aplanospore.				
8. What are akinetes?				
	C			
January Court Willell Call				
10. Name the reserve food materials found in Phaeophyta	and Rhodophyta.			
11. What is oogamy?				
12. Write the contribution of F. E. Fritsch in algae.				
Q. 4 Long questions (Attempt any 4 out of 8)	(8X4 = 32)			
(1) Explain characteristic features of Microorganisms in diff	ferent group.			
(2) Describe the method of preparation of culture media.				
	R.T. P. Science			
(3) Write notes on: (a) Mycoplasma	Q			
(b) TMV	(8)			
	(a: (LIBRARY) (g)			
(4) Describe lytic cycle in Bactriophage.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
	I. V. Nagar			
(5) Give an account of range of thallus organization in blue	green algae.			
(6) Describe structure and function of heterocyst.				
(7) Write role of algae in industry.				
(8) Describe the structure of flagella and cell wall in algae.				

