A-25 SEAT No.

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY

B.Sc. Microbiology (NC) (2010)

Semester III

US03CMIC02: Fundamentals of Microbiology-II

Date: 22.11.18, Thursday	Total Marks: 70
Time: 2.00 to 5.00 p.m.	**
Q.1. Attempt the following multiple choice q	uestions. (10)
1. To which category of classification is the	e suffix ales assigned?
(a) species	(b) order
(c) genus	(d) family
2. In Whittaker's classification in which kin	gdom are bacteria included?
(a) Protista	(b) Monera
(c) Fungi	(d) Animalia
3. Micrococcus luteus means in Latin	1.
(a) orange berry	(b) yellow berry
(c) violet berry	(d) blue berry
4. Which of the following can be used as a	solidifying agent?
(a) agar agar	(b) silica gel
(c) gelatin	(d) all of them
5. Microorganisms which use organic comp	ounds as carbon source are called
(a) chemotrophs	(b) autotrophs
(c) heterotrophs	(d) none of them
6. Method of isolation of microorganisms in	ncludes
(a) streak plate method	(b) micromanipulator
(c) serial dilution method	(d) all of these
7. Which of the following is a cryoprotective	a agent?
(a) agar	(b) glycerol
(c) gelatin	(d) all of them
8. The time required for microbial population	
(a) optimum time	(b) generation time
(c) growth time	(d) none of them
9. Which of the following is a plant virus?	
(a) TMV	(b) HIV
(c) HBV	(d) influenza virus
10. A phage which infects the bacterial host	and causes fragmentation of host DNA
is called	
(a) virulent phage	(b) temperate phage
(c) prophage	(d) none of them

Q.2. Attempt any six out of the following.	•
1. What is nomenclature? What are its adventage 2	(12)
2. Define: (I) classification (ii) tava	
3. Enlist names of divisions included in Bergey's manual.	
" That conkey's filedium is a selective median. "	
That are the different physiological groups of migra and the	ad on the
response to temperature?	ed off the
6. Define: (i) continuous culture (ii) synchronous culture	
" Define: (i) propriage (ii) lysogen	
8. Give two examples of animal viruses.	
Q.3. Enlist major characteristics of microorganisms and explain any two classification in detail.	
classification in detail.	of them for
OR	(08)
Q.3. Write notes on:	
(a) Whittakers five kingdom concept.	(08)
(b) Haeckal's classification.	
Q.4. Describe genetic relatedness at a	
Q.4. Describe genetic relatedness used for classifying bacteria. OR	(08)
Q.4. Write notes on:	(55)
(a) Numerical taxonomy.	(08)
(b) Nomenclature and identification.	()
Q.5. Write a note on nutritional requirements of bacteria.	
OR	(08)
Q.5. Describe common ingredients of media.	
	(08)
Q.6. Write a note on physical conditions required for growth of bacteria.	
OR OR	(08)
Q.6. Write a note on methods of isolating pure culture.	(00)
	(08)
Q.7. Write a note on normal growth curve of bacteria.	(00)
OR :	(08)
Q.7. Write a note on measurement of growth.	(00)
Q.8. Write a note on outside to	(08)
Q.8. Write a note on cultivation of animal viruses.	
OR Q.8. Write a note on lytic cycle.	