

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Bacterial Diversity

Subject Code : 5SC02BAD1

Branch: M.Sc.(Microbiology)

Semester : 2

Date : 02/05/2017

Time : 02:00 To 05:00

Marks : 70

Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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SECTION – I

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|------------|--|-------------|
| Q-1 | Attempt the Following questions | (07) |
| | a. Define Endospore. | 1 |
| | b. Write difference between eubacteria and archaebacteria | 1 |
| | c. Write specific requirements for isolation of anaerobic bacteria | 1 |
| | d. Define non-cultureable bacteria | 1 |
| | e. Define complex nutrients | 1 |
| | f. Define oligonucleotide | 1 |
| | g. What is Dendogram ? | 1 |
| Q-2 | Attempt all questions | (14) |
| | a. Write a note on basics of bacterial classification | 7 |
| | b. Write a note on economic important of non-proteobacteria | 7 |
| OR | | |
| Q-2 | Attempt all questions | (14) |
| | a. Write a short note on evolutionary chronometers | 7 |
| | b. Explain in details: signature sequences | 7 |
| Q-3 | Attempt all questions | (14) |
| | a. Write a short note on maintenance and preservation of bacterial cultures. | 7 |
| | b. Write a short note on differences between eubacteria and archaebacteria. | 7 |
| OR | | |
| Q-3 | Attempt all questions | (14) |
| | a. Write a note on Archea | 7 |
| | b. Write a note on non-culturable bacteria and explain its importance | 7 |



SECTION – II

Q-4	Attempt the Following questions	(07)
	a. Enlist the various stages of bacterial growth	1
	b. Explain effect of nutrients availability on bacterial growth curve	1
	c. Give any two example of Alpha proteobacteria	1
	d. Give any two example of Beta proteobacteria	1
	e. Give any two example of Gamma proteobacteria	1
	f. Draw the structure of bacterial flagella	1
	g. Explain in one sentence about importance of rizobacteria	1
Q-5	Attempt all questions	(14)
	Write a note on locomotory organelles of bacteria	14
	OR	
Q-5	Attempt all questions	(14)
a	Explain in details: Culture media	7
b.	Explain in details: Methanogenes	7
Q-6	Attempt all questions	(14)
	Write a note on various model proposed to describe cell membrane of bacteria	14
	OR	
Q-6	Attempt all Questions	(14)
	Explain in details: Halophiles	7
	Write a note on difference between alpha, beta and gamma proteobacteria	7

