

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name : Environmental Microbiology

Subject Code : 4SC04ENM1

Branch: B.Sc. (Microbiology)

Semester : 4

Date : 18/04/2019

Time : 02:30 To 05:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & 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.

Q-1	Attempt the following questions:	(14)
	a) Define: Lichen	01
	b) What is ecosystem?	01
	c) Define: halophiles	01
	d) Define: synergism	01
	e) What is Amensalism?	01
	f) What is phosphate immobilization?	01
	g) Name of Microbes involved in sulphur cycle (any three)	01
	h) Define: nitrification	01
	i) Sources and types of solid waste (any three)	01
	j) Define: BOD	01
	k) Define: xenobiotic compounds	01
	l) Define: Humus	01
	m) Write down the full form of MPN test	01
	n) What are fecal coli forms?	01
	Attempt any four questions from Q-2 to Q-8	
Q-2	Write in detail: Extremophiles	14
Q-3	Attempt all questions	(14)
	a) Discuss: Soil profile and soil microflora	07
	b) Explain: Symbiotic interactions with any one example	07
Q-4	Attempt all questions	(14)
	a) Write down in detail: Microbe interactions (any three)	07
	b) Briefly explain: Nitrogen cycle	07
Q-5	Attempt all questions	(14)
	a) Prepare a short note on : Phosphorus cycle	07



- b) Degradation of common pesticides (with any one example) 07
- Q-6 Attempt all questions (14)**
- a) Prepare a short note on: biosurfactants 07
- b) Discuss: Treatment and safety of drinking (potable) water 07
- Q-7 Attempt all questions (14)**
- a) Explain in detail: oxidation ponds and trickling filter 07
- b) Write a short note on: Aeromicroflora 07
- Q-8 Attempt all questions (14)**
- a) Discuss: composting and sanitary landfill 07
- b) What are ruminants microbes? Write down in detail on Microbes in ruminants 07

