Enrollment No: _____ Exam Seat No:_____

C.U.SHAH UNIVERSITY

Summer Examination 2019

Subject Name: Pharmaceutical Microbiology - Theory
Subject Code: BP303T **Branch:** B.Pharm
Semester: 3 **Date : 15/03/2019** **Time : 02:30 To 05:30** **Marks : 75**

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: (20)

a) Ethylene oxide Sterilization
b) Rideal Walker test
c) Sterilization indicators
d) D value
e) Z value
f) Moist Heat sterilization
g) Sterile area class 10,000
h) Total count
i) Viable count
j) Cold sterilization

Attempt the following questions:

Q-2		**Attempt any two of following :**	**(20)**
	A	Write in detail about media used for cultivation of anaerobic organisms	**10**
	B	Classify various methods of sterilization and discuss about radiation sterilization	**10**
	C	Discuss the contamination in an aseptic area and methods of prevention	**10**
Q-3		**Attempt any Seven of following :**	**(35)**
	A	Write application and scope of Pharmaceutical Microbiology	**5**
	B	Discuss the gram Staining and acid fast Staining	**5**
	C	Describe structure & composition of virus	**5**
	D	Enumerate and discuss the factors affecting disinfection	**5**
	E	How do perform test for sterility of eye drops	**5**
	F	Explain principle involved in microbiological assay of antibiotics	**5**
	G	Discuss product protection in context to role of HVAC in pharmaceutical Industry	**5**
	H	Write a note on antimicrobial agents	**5**
	I	Explain Application of cell cultures in pharmaceutical industry and research	**5**