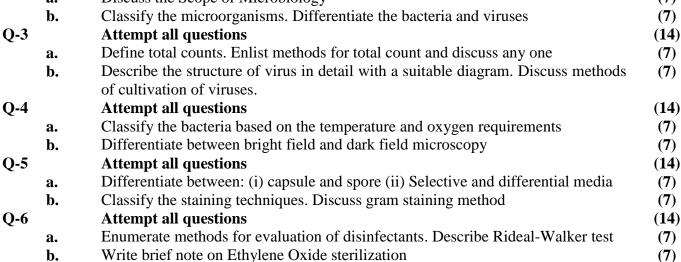
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C.U.SHAH UNIVERSITY **Summer Examination 2019** Subject Name: Pharmaceutical Microbiology-I Subject Code: 4PS05PMI1 **Branch:** B.Pharm Semester: 5 Date: 12/03/2019 Time: 10:30 To 01:30 Marks: 70 **Instructions:** (1) Use of Programmable calculator & 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. **Define the following terms** Q-1 (14)Spirochetes a) Sanitizer **b**) Thermal death point c) Cultivation **d**) Disinfectant. e) Q10- value f) **Gram Staining** g) Gram +ve Bacteria h) Sterilization i) Eukaryotic cell **j**) Scanning Electron Microscopy k) Spore staining 1) m) Viable count Prokaryotic cell Attempt any four questions from Q-2 to Q-8 Q-2 Attempt all questions (14)Discuss the Scope of Microbiology a. **(7)** Classify the microorganisms. Differentiate the bacteria and viruses b. Attempt all questions Define total counts. Enlist methods for total count and discuss any one a. Describe the structure of virus in detail with a suitable diagram. Discuss methods b. of cultivation of viruses. Attempt all questions





Q-7		Attempt all questions	(14)
	a.	Describe biological indicators for monitoring sterilization processes	(7)
	b.	Write a note on yeast use in pharmaceutical Industrial.	(7)
Q-8		Attempt all questions	(14)
	a.	Explain principle involved in microbiological assay of Vitamins.	(7)
	b.	Why test for sterility is carried out? What is the importance of Control test in the	(7)
		test for sterility?	