

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2153605****Date:04/12/2018****Subject Name:Microbiology & Formulation Technology of Liquids & Topicals****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Define, Sterilization, Validation, Disinfectant	03
	(b) What are the different types of light microscope and write the function of each	04
	(c) Discuss the Principle and Process of Acid Fast staining Technique	07
Q.2	(a) Explain the morphology of Virus	03
	(b) Explain: Scanning and Tanning Electron Microscope	04
	(c) Write a note on Disinfectants and Explain Phenol Coefficient test	07
	OR	
	(c) Which are the different methods of maintaining and preserving pure cultures. Explain each method briefly.	07
Q.3	(a) Classify different types of vaccines with examples.	03
	(b) Write a Short note on ELISA method	04
	(c) Define antibody. Explain classification of Antibody with Diagram	07
	OR	
Q.3	(a) Write Differences between Wet mount and Hanging Drop Technique.	03
	(b) Explain the concept of allergy	04
	(c) Describe the Bacterial Morphology, Reproduction and Isolation methods.	07
Q.4	(a) Define the following: (1).Linctuses, (2). Liniments, (3).Eyedrop and eardrops	03
	(b) Explain in detail stability of emulsion	04
	(c) Write an elaborate note on formulation and evaluation of suspension	07
	OR	
Q.4	(a) Write a note on the Ideal properties of an Emulsifying agent.	03
	(b) Explain the formulation of Syrup in detail.	04
	(c) Describe in detail about the classifications of emulsifying agents	07
Q.5	(a) What are Suspension & Emulsion?	03
	(b) Discuss about the packaging of syrups	04
	(c) Describe the classifications of Syrups. Give its advantages over other dosage forms	07
	OR	
Q.5	(a) Explain: Capsule & Slime Layer	03
	(b) Briefly Describe Classification of Culture Media	04
	(c) Describe the various tests for the identification of types of emulsion.	07
