QP Code: 76328

[Total Marks: 75 [Total Marks: 100

 N.B. (1) All Questions are compulsory. (2) For Paper students each question carries 15 marks. (3) For Research students, each question carries 20 marks. 	
Q.1 (a) Discuss the following (any One)	7 /10
i) The overall activity of validation.	
ii) Importance of GLP in Pharmaceutical industry.	0/10
(b) Comment on the following (any One)	8/10
i) Basic principles of Quality assurance in food processing industry.	
ii) Importance of documentation in GMP.	
Q.2 (a) Answer the following (any one)	7/10
i) Give an account of the types of microbes found in meat. Add a note on the	7710
changes in meat quality due to microbial activity.	
ii) Elaborate upon the sterilization processes used in pharmaceutical industry.	
(b) Answer the following (any one)	8/10
i) How would you enumerate indicator organisms from a water sample?	
ii) Describe the methods used in microbiological analysis of milk powder.	
	= 40
Q.3 (a) Answer the following (any one)	7/10
i) Discuss the newer food borne pathogens.	
ii) What are the types of microorganisms found in fruit juices? How would you	ļ
perform microbiological analysis of a fresh juice sample?	8/10
(b) Discuss the following (any one)	0/10
i) The role of pigments and surfactants in increasing the survival capacity of microbes in processed food.	
ii) The applications of organic acids and their salts as food preservatives.	
ii) The applications of organic acids and their suits as food preservatives.	
O. 4.(a) Attempt the following (any one)	7/10
i) Give an account of the role of Pharmacopeia in Pharmaceutical industry.	
ii) Describe in details the CCPs in Cheese making.	
(b) Attempt the following (any one)	8/10
i) Discuss the importance of Quality Audits.	
ii) What are ISO series of standards? Where and why are they used?	

3 Hours 3 Hours

For Paper Students For Research Students

Q. 5 (a) Write short notes on the following (any three)	12/15
i) SOP for culture maintenance in a laboratory.	
ii) Sterility testing of antifungal preparation.	
iii) Enumeration of S aureus from dairy product.	
iv) Automated methods for bacterial identification.	
(b) Answer (any one)	3/5
i) Describe detection methods for presence of Listeria monocytogenes in food.	
ii) Give role of Biocontrol agents in food preservation.	