Exam Date & Time: 07-Dec-2018 (02:00 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Specialization:Pharmaceutical Quality assurance

Date:07-12-2018

Product Development and Technology Transfer [PQA-MQA104T]

Duration: 180 mins. Marks: 75 **SECTION - A** Answer all the questions. Answer the following (10 marks x = 50 marks) Discuss SUPAC guidelines of USFDA 1) (10)What is stability analysis? Explain stability testing methods 2) (10)What is a "phase III clinical trial" as per USFDA? Explain. 3) (10)Explain the steps involved in technology transfer in analytical R & D 4) (10)Discuss the quality control tests for metal containers for eye ointments 5) (10)SECTION - B Answer all the questions. Answer the following (5 marks x 5 = 25 marks) Enlist the techniques for the study of crystal properties in pre-formulation and 6) (5)explain any one. What is technology transfer? Why it is done? Explain 7) (5)Explain CTD structure as per FDA 8) (5) Explain bulk characterization of solid dosage form in pre-formulation studies. 9) (5)Discuss the adverse event reporting requirements of PMS of USFDA 10) (5)----End----