Question Paper

Exam Date & Time: 29-Nov-2017 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017 PROGRAM: MPHARM SEMESTER 1

DATE: 29/11/2017 TIME: 2:00PM - 5:00PM

Quality Management Systems [PQA-MQA102T]

Marks: 50 Duration: 180 mins.

Answer all the questions.

Answer the following (5 marks x = 40 marks)

Allswer the following (5 marks x 0 = 40 marks)		
1)	Write a note on stability testing of drug substance with special emphasis given to scope, selection of batches, testing frequency and storage conditions as per ICH Q1(A)R2.	(5)
2)	Write a note on statistical control charts based on variables.	(5)
3)	Write a note on risk assessment as per ICH Q9.	(5)
4)	Define the concept of regulatory compliance. Enlist the types and reasons for benchmarking in pharmaceutical industry.	(5)
5)	Discuss Total quality management system in detail.	(5)
6)	Write in detail about annual product review.	(5)
7)	Prepare a checklist for OOS investigation.	(5)
8)	Discuss CAPA in detail.	(5)
Answer the following with specific answers (2 marks x 5 = 10 marks)		
9)	Differentiate between stress and accelerated stability testing.	(2)
A)		
В)	Define the terms "Risk" and "Quality Risk Management" as per ICH Q9.	(2)
C)	Give the significance of statistical process control.	(2)
D)		(2)

Define Six sigma concept.

E) Give any four importance of CFR-21 part 11.

(2)

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