

Question Paper

Exam Date & Time: 01-Dec-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 I

DATE :01-12-2017

TIME : 2:00PM - 5:00PM

Pharmaceutical Validation [PCH-MPA103T]

Marks: 50

Duration: 180 mins.

Answer the following (8Q x 5marks = 40 marks)

- 1) What is specificity and accuracy of an analytical method? How specificity and accuracy studies are carried out for a chromatographic method. (5)
- 2) What are the different computerized operations associated with a pharmaceutical industry? Write a note on fundamental task and supporting procedures involved in the validation of computer systems? (5)
- 3) What is a complete specification? Explain the contents and format of a complete specification (5)
- 4) What is Patent Cooperation Treaty? Discuss the objectives and benefits of PCT and explain the PCT filing system (5)
- 5) List out the advantages of validation. (5)
- 6) Discuss in detail about Prospective validation. (5)
- 7) Name the parameters that must be checked during qualification of IR spectrophotometers (5)
- 8) Write about level 3 and level 4 qualification of pH meters. (5)

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) What is peak purity? How it is established for a chromatographic (2)

- A) method?
- B) What are the various mechanisms (source) of contamination in pharmaceutical operations and enlist the factors to be considered for setting acceptable limits for cleaning process. (2)
- C) Under what circumstances revalidation is required? Explain (2)
- D) Explain Design qualification (2)
- E) Explain the difference between validation and qualification. (2)

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