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Exam Date & Time: 27-Mar-2021 (01:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Documentation and Regulatory Writing [PQA-MRA102T]

Marks: 75 Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x = 50 marks)

- 1) Gen Pharma is planning to market anti-psychotic product in US market in the year 2030. As a market research analyst of the company, answer the following questions:
 - a. When is exploratory research conducted? (1 M)
 - b. At which stage of exploratory product development the risk is identified? (1 M)
 - c. Explain the strategies considered in a product development plan. (8 M)
- Out of specification (OOS) assay result was reported for the Ramipril tablet 2.5 mg batch no.: GL607898. Tablet compression machine malfunction was observed during manufacturing of this batch. As a manufacturing supervisor, explain the steps and tools involved in the root cause analysis in this case.
- a. Explain the term "Validation of submission" in eCTD submissions? (2 M) b. Explain the severity levels in the validation criteria for eCTD submissions. (8 M) (10)
- a. Explain the differences between internal and external audit. (4 M) b. Explain the contents of audit report in a regulatory audit. (6 M) (10)
- 5) The formulation of a tablet dosage form was upgraded from the existing formula in the following respect

SN	Component	± %w/w Change	
1	Filler	+3%	
2	Starch	-2%	
3	Lubricant	-1%	

Under which category this change should be notified to the regulatory agency. What test documentation is expected by the regulatory agency to approve this change?

SECTION - B

Answer all the questions.

Answer the following (5 marks x = 25 marks)

- Explain the steps involved in design and development of quality management system of medical devices. (5)
- 7) Write the application of corrective and preventive action in the product lifecycle. (5)
- a. Write the structure for Common Technical Document (CTD).
 b. Write the differences between ASEAN CTD and ICH CTD.

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- 9) Differentiate between Case-B and Case-C dissolution testing followed to support the post approval changes. (5)
- 10) Write a note on Changes Being Effected (CBE) and CBE-30. (5)

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