

Question Paper

Exam Date & Time: 03-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES

END SEMESTER THEORY EXAMINATIONS- MAY 2018

PROGRAM: MPHARM SEMESTER 2

(PHARMACEUTICAL QUALITY ASSURANCE)

DATE: 03/05/2018

TIME: 2:00 PM - 5:00 PM

Hazards and Safety Management [PQA-MQA201T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

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

- 1) Explain in detail the stages of fire and explosion hazard management process. (5)
- 2) Define and classify explosion with examples. (5)
- 3) Write and explain the schematic diagram of air handling unit. (5)
- 4) Explain the stages of preliminary hazard analysis in brief. (5)
- 5) Explain renewable and non-renewable energy resources with examples. (5)
- 6) Explain the hazards of methylating agents with examples (5)
- 7) Explain the control measures for chemical hazards in brief. (5)
- 8) How to minimize the contaminants due to building and facility in pharmaceutical industry? (5)

b

Answer all the questions.

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

- 9) What are toxic gases? Write examples. (2)
 - A) (2)
 - B) List the entry routes of chemicals in to the human body. (2)
 - C) List the sources of radioactivity. (2)

- D) Name toxic intermediate compounds as sources of chemical hazard. (2)
- E) List the sources of waste in pharmaceutical industry. (2)

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