	Utech
Name:	(4)
Roll No.:	The same of the sa
Invigilator's Signature :	

CS/M.PHARM/SEM-1/MPT-115 (2)/2012-13 2012

QUALITY ASSURANCE-II

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP - A

(Objective Type Questions)

- 1. Answer any *ten* of the following : $10 \times 1 = 10$
 - A) Choose the correct alternatives for the following:
 - i) 21 CFR.211 is
 - a) GLP
 - b) cGMP
 - c) GMP, Drugs (General)
 - d) GMP, Drugs (Finished pharmaceuticals).

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- ii) Both Indian and WHO GMP state that validation should be considered as
 - a) one-off exercise
 - b) on going program
 - c) first implementation
 - d) none of these.
- iii) Prospective Process Validation runs will be required
 - a) before the product is launched in the market
 - b) after the product is launched in the market
 - c) after any complaints received from the market
 - d) any time of processing of product.
- iv) The size laboratory pilot batch will be
 - a) 10X
- b) 100X
- c) 1000X
- d) 10000X.
- v) 'Product Recall', this element appears in
 - a) Schedule Y
 - b) Schedule X
 - c) Revised schedule M
 - d) Schedule N.
- vi) Revised schedule *M* recommends Potable water should not contain which one of the following pathogens?
 - a) E.coli
 - b) Lactobacillus
 - c) S. Sacharomyces
 - d) None of these.



- B) Fill in the blank:
 - vii) Quality Assurance = GMP + GLP +
- C) Answer very briefly:
 - viii) What is AQL?
 - ix) Name any two basic phases of Quality Audit.
 - x) What is the endotoxin level of water used in pharmaceutical products?
 - xi) What is the level-1 document of the organization?

GROUP - B

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- 2. Write a short on Qualifications of Instrument Validation.
- 3. What is quality audit? Explain different types of quality audit.
- 4. What do you mean by Pareto principle?
- 5. Write in brief about good warehousing practice.
- 6. Describe quality review of the finished products.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. What are the different steps to validate an analytical method and what are the different steps to audit of analytical method? 5 + 10

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- 8. a) Give an account for validation of steam sterilization process.
 - b) Define *F*-value, *D*-value and *Z*-value.

10 + 5

- 9. a) Write a short on Fish-bone diagram.
 - b) Describe Validation Master Plan.
 - c) What may be the possible reasons for product recall?

6 + 6 + 3

- 10. a) Describe in detail about Batch Release Documents of Finished goods.
 - b) Write down the steps involved in Product Recall. 8 + 7
- 11. Write short notes on the following:

5 + 5 + 5

- a) Quality control of non-clinical testing
- b) Waste disposal
- c) Quality control documentation.

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