

[illegible]

B.PHARM
PH 8.4

Q Code:C239

Answer all parts of a question at a place.

- a) Define audit and classify it.
- b) What is schedule M? What are its elements and sub elements?
- c) Define quality policy?
- d) What do you mean by process validation and process optimization?
- e) What is equipment validation and what are its steps?
- f) Classify and signify the role of HVAC systems in environment control.
- g) What do you mean by master formula record? What should an ideal MFR contain?
- h) What do you mean by Mean Kinetic temperature? How does temperature influence stability of pharmaceutical products?
- i) Signify the role of DRA in regulating pharmaceutical product quality.
- j) Expand the terms ISO and ICH.

- a) What is cleaning validation and Rinse samples? (5)
- b) Swab technique. (5)

Q3 **a)** Write about ideal requirements of warehouse for pharmaceutical products both RM and FP. **(5)**

b) Terminal sterilisation and sterile filtered products **(5)**

Q4	a)	Retrospective validation.	(5)
	b)	Analytical validation.	(5)

Q5 **a)** Discuss briefly about functions of drug regulatory authority as per U.S. **(5)**

b) Discuss briefly about DRA functionality as per Indian scenario. **(5)**

- Q6** a) Briefly write about product recall. **(5)**
 b) Complaints handling is a vital process in any pharmaceutical industry. **(5)**
 Justify.
- Q7** Write a note on TQM along with its principles and rules. **(10)**
- Q8** **Write short notes on Any Two:** **(5 X 2)**
 a) SOP
 b) ISO
 c) Good Manufacturing Practices
 d) Role of Quality Assurance in Pharmaceutical Industry.