

# Question Paper

Exam Date & Time: 24-May-2023 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal College of Pharmaceutical Sciences, MAHE, Manipal  
B Pharm VI Semester - End Semester Examination, May 2023

Sub code: PQA - BP606T

Sub title: Pharmaceutical Quality Assurance

**Pharmaceutical Quality Assurance (Theory) [PQA-BP606T -S2]**

**Marks: 75**

**Duration: 180 mins.**

### I Multiple Choice Questions (MCQs)

**Answer all the questions.**

Section Duration: 30 mins

- 1) Who is responsible for executing the function of the stores? (1)  
[QA officer](#)  
[Store manager](#)  
[QC analyst](#)  
[Production head](#)
- 2) Formula to calculate LOD (1)  
[5.3\\*SD of Intercept/Slope](#)  
[3.3\\*SD of Intercept/Slope](#)  
[10\\*SD of Intercept/Slope](#)  
[15\\*SD of Intercept/Slope](#)
- 3) BFR is primarily a replica of the ----- (1)  
[JFR](#)  
[MFR](#)  
[PFR](#)  
[NFR](#)
- 4) Which is the second step in handling of complaints (1)  
[Investigation of the Complaint](#)  
[Receiving and Recording of a Complaint](#)  
[Reporting of Defects](#)  
[Quality Auditing](#)
- 5) What is the effective time line for class III recall of the product from the market (1)  
[Maximum of 45 days](#)  
[Maximum of 10 days](#)  
[Maximum of 30 days](#)  
[Maximum of 60 days](#)

6) The level 1 in the quality documentation system is (1)

- [Records](#)
- [Quality policy](#)
- [Quality procedures](#)
- [Work instructions](#)

7) If the batch is found to be not complying with the regulatory specifications during the post-marketing stability study comes under----- (1)

- [Statutory recall](#)
- [Voluntary recall](#)
- [Patient recall](#)
- [Physician recall](#)

8) Prospective validation is performed on at least ---- successive production-size (1)

- [5](#)
- [3](#)
- [2](#)
- [6](#)

9) Audit observations are made by regulatory bodies and deficiencies found are included in Form ----- (1)

- [481](#)
- [482](#)
- [483](#)
- [484](#)

10) The subcategory of ICH guidelines is (1)

- [Quality, Safety, Efficacy and Multidisciplinary](#)
- [Quality, Authenticity, Efficacy and Multidisciplinary](#)
- [Quality, Safety, Efficacy and Multigenetic](#)
- [Quality, Safety, assurance and Multidisciplinary](#)

11) Current SOP and obsolete SOP can be recognised by it's\_\_\_\_\_ (1)

- [Document numbering system](#)
- [Signature](#)
- [Procedure](#)
- [Scope](#)

12) Bracketing and Matrixing Designs for Stability Testing of New Drug Substances and Products is (1)

- [Q1A](#)
- [Q1B](#)
- [Q1C](#)
- [Q1D](#)

13) \_\_\_\_\_ is Analytical method validation guideline (1)

- [Q1A](#)
- [Q1B](#)
- [Q3](#)
- [Q2R1](#)

14) Accelerated stability studies conditions for Drug substance intended for storage in a refrigerator (1)

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[35 °C ± 2 °C/60% ±](#)

[5%](#)

[25 °C ± 2 °C/65% ±](#)

[5%](#)

[45 °C ± 2 °C/60% ±](#)

[5%](#)

[25 °C ± 2 °C/60% ±](#)

[5%](#)

15) Bubble air locks are found in (1)

[Parenteral dosage form area](#)

[Semisolid dosage form area](#)

[Solid dosage form area](#)

[Liquid orals dosage form](#)

[area](#)

16) In arsenic test for glass containers, the intensity of the colour is measured in (1)

[UV region](#)

[Visible region](#)

[IR region](#)

[Radiofrequency](#)

[region](#)

17) Penetrability test is done for (1)

[Glass ampule](#)

[Glass vial](#)

[Rubber closure](#)

[Collapsible](#)

[tube](#)

18) Thickness of paper or paper board is measured using (1)

[Measing scale](#)

[Measuring](#)

[tape](#)

[Micrometre](#)

[Micropipette](#)

19) Because of numerous cross-outs, a laboratory analyst copies his data onto a new worksheet and destroys the old worksheet. His data is no longer (1)

[Attributable](#)

[Legible](#)

[Original](#)

[Accurate](#)

20) GLP is a formal regulation that was created by the FDA (United states food and drug administration) (1)  
in \_\_\_\_\_

[1978](#)

[1987](#)

[1967](#)

[1977](#)

## II Long Answers

**Answer all the questions.**

- 1) a. Explain the factors to be considered while selecting the manufacturing site for pharmaceutical industry. (5 Marks) (10)  
b. Explain the measures to prevent or reduce the cross contamination. (5 Marks)
- 2) a. Why Analytical Method Validation is required in the Pharmaceutical industry? (4 Marks) (10)  
b. Explain the characteristics that should be considered during the validation of analytical methods. (6 Marks)

**III Short Answers**

**Answer all the questions.**

- 1) Explain the complaint handling system in the pharmaceutical units (5)
- 2) Discuss various Good Warehousing Practices parameters in the Pharmaceutical Industry (5)
- 3) Discuss in detail about ISO 9000 certification process and its importance to pharmaceutical industries in the present scenario (5)
- 4) List and explain the advantages and challenges of QbD implementation in the pharmaceutical sector (5)
- 5) Why cleaning and sanitation is so important in pharmaceutical industry? (5)
- 6) Explain the purpose, principle, procedure and limit for thermal shock test for glass bottle. (5)
- 7) Discuss the consequences of noncompliance's for GLP facility (5)

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