

# **PHB Education**

**Government Exam and D. Pharm Exit Exam Preparation  
Questions Bank**

## ***Subject: Pharmaceuticals***

### ***Chapter 18 : Quality Control and Quality Assurance***

#### ***Section A: Definition and Concepts of Quality Assurance (QA) (25 MCQs)***

1. Quality Assurance ensures that —
  - a) The final product is tested only
  - b) Quality is built into the product
  - c) Only defective products are removed
  - d) None of these

**Answer:** b

2. QA is a part of —
  - a) Manufacturing only
  - b) Total Quality Management
  - c) Accounting process
  - d) Distribution system

**Answer:** b

3. The main aim of QA is —
  - a) To find defects
  - b) To prevent defects
  - c) To sell products
  - d) To advertise

**Answer:** b

4. QA is —
  - a) Product oriented
  - b) Process oriented
  - c) Marketing oriented
  - d) None

**Answer:** b

5. The motto of QA is —
  - a) Quality by chance
  - b) Quality by design
  - c) Quality by testing
  - d) Quality by marketing

**Answer:** b

6. The head of QA is responsible for —
  - a) Product release

- b) Market survey
- c) Machine maintenance
- d) Packaging only

**Answer: a**

7. Documentation in QA is —

- a) Not required
- b) Optional
- c) Mandatory
- d) Dependent on QC

**Answer: c**

8. QA ensures compliance with —

- a) GMP
- b) GDP
- c) ISO 9001
- d) All of these

**Answer: d**

9. Quality assurance starts from —

- a) Product testing
- b) Product design
- c) Product sale
- d) Product marketing

**Answer: b**

10. “Right first time” concept belongs to —

- a) QC
- b) QA
- c) Validation
- d) Calibration

**Answer: b**

11. QA covers —

- a) Production
- b) Testing
- c) Documentation
- d) All of these

**Answer: d**

12. Quality assurance is concerned with —

- a) Management of quality
- b) Detection of defects

c) Financial audits

d) Procurement

**Answer:** a

13. SOP in QA stands for —

a) Standard Operation Plan

b) Standard Operating Procedure

c) Standard Observing Procedure

d) Simple Operating Plan

**Answer:** b

14. Deviation control is part of —

a) QC

b) QA

c) R&D

d) Production

**Answer:** b

15. Change control is implemented under —

a) QA

b) QC

c) Production

d) Finance

**Answer:** a

16. Internal audits are performed by —

a) Production

b) QA department

c) HR

d) Marketing

**Answer:** b

17. QA ensures compliance to —

a) Product quality

b) Process validation

c) Regulatory requirements

d) All of the above

**Answer:** d

18. The concept of “Quality by Design (QbD)” was introduced by —

a) FDA

b) ICH

c) WHO

d) USP

**Answer:** b

19. The objective of QA is to produce —

- a) Economical products
- b) Consistent and safe products
- c) Attractive packaging
- d) Costly drugs

**Answer:** b

20. QA includes —

- a) Calibration
- b) Validation
- c) Documentation
- d) All of these

**Answer:** d

21. The ultimate responsibility of product quality lies with —

- a) Production manager
- b) QA manager
- c) QC analyst
- d) Marketing manager

**Answer:** b

22. Revalidation is done —

- a) After product launch
- b) Periodically or after changes
- c) Only during production
- d) Never

**Answer:** b

23. Product recall is a part of —

- a) QA system
- b) QC test
- c) Packaging
- d) Labeling

**Answer:** a

24. The batch manufacturing record (BMR) is maintained under —

- a) QA
- b) Production
- c) QC

d) HR

**Answer: a**

25. The quality policy is established by —

a) QA

b) Top management

c) QC

d) Production

**Answer: b**

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**Section B: Quality Control (QC) (25 MCQs)**

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26. Quality Control is —

a) Product-oriented

b) Process-oriented

c) Marketing-oriented

d) Cost-oriented

**Answer: a**

27. QC involves —

a) Raw material testing

b) In-process testing

c) Finished product testing

d) All of these

**Answer: d**

28. The main objective of QC is —

a) To ensure compliance of product

b) To control packaging

c) To maintain sales

d) To increase price

**Answer: a**

29. The instrument used for assay analysis is found in —

a) Production

b) QC laboratory

c) Warehouse

d) QA department

**Answer: b**

30. QC checks —

- a) Appearance
- b) pH
- c) Content uniformity
- d) All of these

**Answer: d**

31. Retention samples are maintained by —

- a) QC
- b) QA
- c) Production
- d) HR

**Answer: a**

32. In QC, sampling is done according to —

- a) Random procedure
- b) Standard sampling plan
- c) Operator's choice
- d) Production plan

**Answer: b**

33. Analytical balance calibration is the responsibility of —

- a) QC
- b) QA
- c) Maintenance
- d) Production

**Answer: a**

34. The QC laboratory must comply with —

- a) GLP
- b) GMP
- c) GDP
- d) ISO

**Answer: a**

35. Stability studies are monitored by —

- a) QA
- b) QC
- c) Production
- d) Marketing

**Answer: b**

36. Out-of-specification (OOS) results are investigated by —

- a) QA
- b) QC
- c) Production
- d) HR

**Answer: b**

37. QC ensures —

- a) Product testing
- b) Correct labeling
- c) Product quality compliance
- d) a and c

**Answer: d**

38. Reference standards are maintained by —

- a) QC
- b) QA
- c) Production
- d) Stores

**Answer: a**

39. Control samples are tested —

- a) Monthly
- b) Periodically
- c) Before release
- d) After marketing

**Answer: c**

40. Finished product release is authorized by —

- a) QA
- b) QC
- c) Production
- d) Store

**Answer: a**

41. QC report is reviewed by —

- a) QA
- b) Production
- c) Marketing
- d) Accounts

**Answer: a**

42. QC testing ensures —

- a) Compliance with pharmacopoeial standards
- b) Market appeal
- c) Cost reduction
- d) Packaging quality

**Answer:** a

43. Microbiological testing is part of —

- a) QC
- b) QA
- c) R&D
- d) Maintenance

**Answer:** a

44. Environmental monitoring in clean rooms is under —

- a) QC (Microbiology)
- b) QA
- c) HR
- d) Stores

**Answer:** a

45. QC laboratory documentation includes —

- a) Log books
- b) Test reports
- c) Equipment records
- d) All of these

**Answer:** d

46. The key document in QC is —

- a) Analytical report
- b) BMR
- c) SOP
- d) Log sheet

**Answer:** a

47. QC testing is performed as per —

- a) SOP
- b) GMP
- c) GLP
- d) All of these

**Answer:** d

48. The QC function begins from —

- a) Receipt of raw materials
- b) Packaging
- c) Distribution
- d) Marketing

**Answer:** a

49. QC ensures —

- a) Consistent quality of batches
- b) Random testing
- c) Market survey
- d) Sales increase

**Answer:** a

50. The department responsible for OOS investigation closure is —

- a) QA
- b) QC
- c) Production
- d) Stores

**Answer:** a

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**Section C: Current Good Manufacturing Practice (cGMP) (25 MCQs)**

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51. GMP stands for —

- a) General Manufacturing Process
- b) Good Manufacturing Practice
- c) Gross Manufacturing Plan
- d) Government Manufacturing Policy

**Answer:** b

52. The term “cGMP” means —

- a) Classical GMP
- b) Current GMP
- c) Certified GMP
- d) Custom GMP

**Answer:** b

53. GMP ensures —

- a) Uniform production
- b) Product safety

- c) Product efficacy
- d) All of these

**Answer: d**

54. GMP was first introduced by —

- a) USFDA
- b) WHO
- c) ICH
- d) ISO

**Answer: a**

55. WHO-GMP guidelines are given in —

- a) TRS 823
- b) TRS 986
- c) TRS 957
- d) TRS 823 (Annex 3)

**Answer: d**

56. Premises and sanitation requirements are part of —

- a) GMP
- b) QC
- c) QA
- d) R&D

**Answer: a**

57. GMP documentation includes —

- a) BMR
- b) SOP
- c) Validation reports
- d) All of these

**Answer: d**

58. The fundamental principle of GMP is —

- a) Product safety
- b) Proper documentation
- c) Employee training
- d) All of these

**Answer: d**

59. The organization responsible for cGMP enforcement in India —

- a) CDSCO
- b) FDA (USA)
- c) ICH

d) ISO

**Answer: a**

60. Personal hygiene in manufacturing is a requirement of —

a) GMP

b) QA

c) QC

d) ISO

**Answer: a**

61. Batch numbering ensures —

a) Traceability

b) Marketing

c) Cost control

d) Productivity

**Answer: a**

62. GMP compliance audit is conducted by —

a) Regulatory bodies

b) Marketing team

c) Production manager

d) Finance department

**Answer: a**

63. Clean room classification is part of —

a) GMP

b) QA

c) R&D

d) QC

**Answer: a**

64. Documentation in GMP follows the principle —

a) “If it’s not written, it didn’t happen.”

b) “Write less, do more.”

c) “Ignore minor details.”

d) “Focus on output only.”

**Answer: a**

65. The Indian GMP guidelines are under —

a) Schedule M

b) Schedule P

c) Schedule C

d) Schedule G

**Answer: a**

66. Equipment qualification is a part of —

a) Validation

b) GMP

c) QA

d) QC

**Answer: a**

67. Air handling system validation is done under —

a) HVAC

b) GMP

c) QC

d) R&D

**Answer: a**

68. Personnel training in GMP is —

a) Optional

b) Mandatory

c) Annual

d) None

**Answer: b**

69. GMP ensures —

a) Consistency and reproducibility

b) Marketing

c) Financial gain

d) New product discovery

**Answer: a**

70. The principle of GMP is mainly focused on —

a) Safety and quality

b) Design and cost

c) Color and taste

d) None

**Answer: a**

71. GMP for sterile products is specified in —

a) Annex 1

b) Annex 5

c) Annex 7

d) Annex 9

**Answer:** a

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**Section D: Validation and Calibration (25 MCQs)**

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76. Validation ensures —

- a) A process consistently produces quality product
- b) Random testing
- c) New product innovation
- d) Employee safety only

**Answer:** a

77. Calibration ensures —

- a) Accuracy of instruments
- b) Product safety
- c) Process reproducibility
- d) Data accuracy

**Answer:** a

78. Types of validation include —

- a) Process validation
- b) Cleaning validation
- c) Analytical validation
- d) All of these

**Answer:** d

79. Validation is a part of —

- a) QA
- b) QC
- c) R&D
- d) HR

**Answer:** a

80. Calibration is carried out —

- a) Periodically
- b) Daily
- c) Once in lifetime
- d) Randomly

**Answer:** a

81. Installation Qualification (IQ) confirms —
- a) Equipment installed as per specification
  - b) Equipment performs as expected
  - c) Equipment cleaning
  - d) Operator training

**Answer:** a

82. Operational Qualification (OQ) confirms —
- a) Performance of equipment
  - b) Design verification
  - c) Installation check
  - d) Material handling

**Answer:** a

83. Performance Qualification (PQ) confirms —
- a) Consistent performance in routine use
  - b) Design
  - c) Installation
  - d) Calibration

**Answer:** a

84. Validation Master Plan (VMP) is a document for —
- a) Planning all validation activities
  - b) Production planning
  - c) Marketing
  - d) QC testing

**Answer:** a

85. Analytical method validation ensures —
- a) Accuracy, precision, specificity
  - b) Packaging
  - c) Labeling
  - d) Cleaning

**Answer:** a

86. Recalibration is required when —
- a) Instrument is repaired
  - b) New product introduced
  - c) Cleaning is done
  - d) Batch is rejected

**Answer:** a

87. The calibration of weights is traceable to —

- a) National Standards
- b) WHO
- c) GMP
- d) ISO 45001

**Answer:** a

88. Validation should be re-performed when —

- a) Major change occurs
- b) Minor deviation
- c) Routine testing
- d) Annual training

**Answer:** a

89. Validation protocol includes —

- a) Objective, scope, procedure
- b) Marketing data
- c) Sales plan
- d) Audit report

**Answer:** a

90. Revalidation frequency depends on —

- a) Process change
- b) Product type
- c) Regulatory requirements
- d) All of these

**Answer:** d

91. Calibration of pH meter is done using —

- a) Buffer solutions
- b) Water
- c) Alcohol
- d) Oil

**Answer:** a

92. Thermometer calibration is done using —

- a) Standard temperature baths
- b) Ice cubes
- c) Hot water
- d) None

**Answer:** a

93. Analytical balance calibration involves —

- a) Standard weights
- b) Random samples
- c) Sugar
- d) Chemicals

**Answer:** a

94. Cleaning validation ensures —

- a) No cross-contamination
- b) New batch identity
- c) Better yield
- d) Faster drying

**Answer:** a

95. Process validation types —

- a) Prospective, Concurrent, Retrospective
- b) Internal and External
- c) Direct and Indirect
- d) Random

**Answer:** a

96. Prospective validation is done —

- a) Before production
- b) During production
- c) After production
- d) After market

**Answer:** a

97. Concurrent validation is done —

- a) During actual production
- b) Before production
- c) After release
- d) During audit

**Answer:** a

98. Retrospective validation is done —

- a) Based on historical data
- b) New product
- c) Failed batch
- d) New equipment

**Answer:** a

99. Calibration certificate must include —

- a) Date, result, signature
- b) Cost of product
- c) Manufacturing process
- d) Audit details

**Answer:** a

100. Validation and calibration are essential for —

- a) GMP compliance
- b) Product advertisement
- c) Finance approval
- d) Market analysis

**Answer:** a



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