

Total No. of Questions : 8]

SEAT No. :

PB-2254

[Total No. of Pages : 2

[6263]-92

B.E. (Computer Engineering)

**SOFTWARE TESTING AND QUALITY ASSURANCE
(2019 Pattern) (Semester - VII) (Elective - IV) (410245D)**

Time : 2½ Hours] [Max. Marks : 70

Instructions to the candidates :

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Explain White box testing and Grey box testing in detail. [6]

b) Discuss Boundary Value Analysis and Equivalence Class Partition. [6]
c) Differentiate between Functional testing and Non-functional testing. [6]

OR

Q2) a) Explain the following test case design techniques : [6]

i) Informal Reviews
ii) Walkthroughs
iii) Inspection
b) What is Cookies testing? Explain Cookies testing with an example. [6]
c) Discuss Loop coverage testing and types of it in detail. [6]

Q3) a) Explain the following requirements of a product: [4]

i) Stated / Implied requirements
ii) Present / Future requirements
b) With neat diagram discuss waterfall model of software development.
Also explain its limitations. [8]
c) Write a note on Customer Satisfaction. [5]

OR

P.T.O.

- Q4)** a) Give types of products based on the basis of criticality to the user. Explain each type with proper example. [8]
b) Discuss problematic areas in software development life cycle. [6]
c) List and explain limitations of Capability Maturity Models [CMM]. [3]

- Q5)** a) Differentiate between Manual Testing and Automation Testing. [6]
b) List and explain benefits of Automation testing. [6]
c) What is Performance testing? Explain the uses of it as well. [6]

OR

- Q6)** a) What is Automation testing? Explain it with an example. [6]
b) With neat diagram explain Automated testing process. [6]
c) Describe Apache Jmeter based on :
i) Aim / Purpose
ii) Working
iii) Advantages

- Q7)** a) Explain the activities to achieve high software quality in detail. [8]
b) Write a note on Six Sigma strategy of software quality assurance. [6]
c) Explain in brief : Histogram, Flowchart and Control chart. [3]

OR

- Q8)** a) Explain ISO 9000 Standard in detail. [6]
b) Write a note on Software Quality Assurance [SQA] plan. [5]
c) Explain Ishikawa's basic tools for quality control. [6]

