Total No. of Questions : 8]

SEAT No. :

PE-2203

[Total No. of Pages : 2

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B.E. (Computer Engineering)

SOFTWARE TESTING AND QUALITY ASSURANCE

(2019 Pattern) (Semester - VII) (410245 D) (Elective - IV)

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) ***Figures to the right indicate full marks.***
3) ***Neat diagrams must be drawn wherever necessary.***
4) ***Assume suitable additional data, if necessary.***
5) ***Use of a non-programmable calculator is allowed.***

Q1) a) Differentiate between blackbox and whitebox testing. **[6]**

b) How would you explain system testing & acceptance testing. **[6]**

c) What do you mean by unit and integration testing. What are the approaches used in integration testing? **[6]**

OR

Q2) a) Discuss Boundary valve analysis and equivalence class partition. **[6]**

b) What is cookies testing? Explain cookies testing with an example. **[6]**

c) Differentiate between functional testing and Non functional testing. **[6]**

Q3) a) Write a note on customer satisfaction. **[5]**

b) Discuss problematic areas in software development life cycle. **[6]**

c) Can you explain quality plan in details. **[6]**

OR

P.T.O.

Q4) a) Explain Why - ISO - 9001 standard & it's important's in software testing. **[5]**

b) What do you understand regarding quality control & explain two methods of quality control. **[6]**

c) List & explain the limitations of CMM model. **[6]**

Q5) a) List & explain benefits of Automation Testing. **[6]**

b) What is performance testing? Explain the uses of it as well. **[6]**

c) Explain different Automated Testing process. **[6]**

OR

Q6) a) Explain different mannual testing process **[6]**

b) How would you explain R.P.A. **[6]**

c) Illustrate selenium's IQE. Explain in details. **[6]**

Q7) a) Can you explain how to maintain SQA. **[5]**

b) Compare the Ishikawa's flowchart & Histogram tools. **[6]**

c) Explain the six sigma characteristics in detail. **[6]**

OR

Q8) a) Explain ISO 9000 standard in detail. **[5]**

b) Explain in brief - Histogram, Flowchart & Control chart. **[6]**

c) Explain the activities to achieve high software quality in detail. **[6]**

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