

DEC-2018

No. of Questions : 12]

SEAT No. :
[Total No. of Pages : 2]

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B.E. (Computer Engg.)
SOFTWARE TESTING AND QUALITY ASSURANCE
(2015 Course) (End Sem.) (Semester - I) (Elective - IV)

2½ Hours] [Max. Marks : 70

Instructions to the candidates:

Assume Suitable Data if necessary. Mention your assumptions.

Right indicates the full marks and Bifurcation for sub questions.

Draw suitable diagrams and tables if necessary.

- Q7) a) What is bug; defect, error & failure give an example of each? [6=3+3]
b) Differentiate between software testing tools and techniques.

OR

- Q8) a) What is impact of defect in different phases of software development? [6=3+3]
b) What is bug tracking, bug fixing & bug verification.

- Q9) a) What is mutation testing? Give an example. [7=3+4]
b) Why independent testing team is required in organizations?

OR

- Q10) a) What are the skill set required by software tester? [7=3+4]
b) With the suitable sample, explain requirement traceability matrix.

- Q11) a) What are the selection criteria of automated testing tool? [7=3+4]
b) What are the difference in testing automation in agile and waterfall model?

OR

- Q12) a) Discuss "automation in extreme programming". [7=3+4]
b) What are some of the challenges in automating the testing of GUI portions of an application? How do these compare with the automation of back-end testing?

P.T.O.

- Q7) a) What is Selenium? What are the different Selenium components? [16=6+5+5]
b) What are the limitations of Selenium?
c) Why one should select selenium as a test tool?

OR

- Q8) a) Describe selenium Web Driver architecture with the help of neat diagram. [16=6+5+5]
b) What is Selenium? What are the different features of it?
c) Enlist and explain the components of selenium tool.

- Q9) a) What does SQA ensure? What are the goals of SQA? [17=6+6+5]
b) State & explain Principles of Quality management.
c) What is ISO standard? What are its advantages?

OR

- Q10) a) What is Six Sigma? Explain the terms DMAIC & DMADV. [17=6+6+5]
b) Define Software Quality & Software Quality Assurance. List the various objectives of SQA.
c) How cost and risk factors are affecting software quality.

- Q11) a) Enumerate Ishikawa's seven basic quality tools. Explain any two in detail. [17=6+6+5]
b) Describe key elements of Total Quality Management.
c) Explain with example Product Quality Metric.

OR

- Q12) a) Write short note on Total Quality Management (TQM). [17=6+6+5]
b) Explain following terms (any two)
Pareto Chart
Scatter Diagrams
Cause and effect diagrams.
c) Describe in detail Defect Removal Effectiveness.

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