

Total No. of Questions : 10]

SEAT No. :

P4003

[Total No. of Pages : 2

[5561]-710

B.E. (I.T.)

SOFTWARE TESTING & QUALITY ASSURANCE
(2015 Pattern) (Semester - I) (414457C) (Elective - II)

Time : 2½ Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8., Q.9 or Q.10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to right side indicate full marks.
- 4) Assume Suitable data if necessary.

Q1) a) What is configuration testing? Explain its objectives. **[5]**

b) Write role of tester in software development organization. **[5]**

OR

Q2) a) Discuss Defect removal effectiveness. **[5]**

b) Explain Defect Bash Elimination. **[5]**

Q3) a) Explain role of process in software quality. **[5]**

b) What is test automation? Explain scope of automation. **[5]**

OR

Q4) a) Explain compatibility testing with example. **[5]**

b) Define the role of SQA Group. **[5]**

Q5) a) What is software quality assurance? Explain software quality assurance planning. **[8]**

b) Explain various components of the software quality assurance system. **[8]**

OR

P.T.O.

- Q6)** a) What is product quality? Compare product quality and process quality. [8]
b) Explain software process models in detail. [8]

- Q7)** a) Explain 7 Quality management Principles of ISO 9000 series in detail. [8]
b) Explain 5 levels of CMM & its Key Process Areas. [8]

OR

- Q8)** a) What is TMM? Explain various levels & benefits of TMM. [8]
b) Explain following in details. [8]
i) Principles behind the ISO/IEC 15504 assessment model.
ii) Structure of the ISO/IEC 15504 assessment model.
iii) Content of the ISO/IEC 15504 assessment model.
iv) ISO/IEC 15504 processes.

- Q9)** a) Explain in detail what is clean-room software engineering? [10]
b) Explain the process of Defect injection and prevention. [8]

OR

- Q10)** a) Explain Case Tools. Also explain their effect on Software Quality. [10]
b) What is Software Process? Explain PSP and TSP in detail. [8]

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