Q.P. Code:05354

[Time:2.30 Hrs] **[Marks:75]**

Please check whether you have got the right question paper.

N.B:
1. All question are compulsory.
2. Figures to the right indicate full marks.
3. Students answering in the regional language should refer in case of doubt to the main text of the paper in English.

Q.1 **Attempt any four of the following:** 20

A Define Software. Write a short-notes on Software Engineering with SE Layers Diagram?

B Describe Generic Process Model with Diagram.

C Explain in brief Extreme programming with diagram.

D Describe Eliciting requirements.

E What is Use case diagram? Draw a use case diagram for online examination system.

F Explain activity diagram with notations.

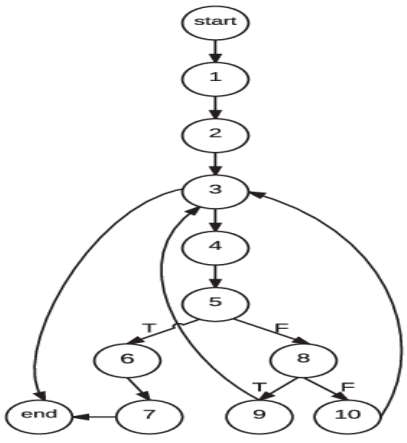
Q.2 **Attempt any four of the following:** 20

A Define Cohesion what are the various levels of Cohesion.

B Write a note on architectural design.

C Explain Halstead Metrics Applied to Testing

D Define cyclomatic complexity. Find out the cyclomatic complexity for the following CFG by any two methods.



E Discuss on resource estimation.

F Discuss COCOMO II model in detailed.

Q.P. Code:05354

Q.3 Attempt any four of the following: 20

A What is Risk management? Explain Software risk management process.

B What is the difference between functional testing and non-functional testing?
C Define Six Sigma. Write a short-notes on Six Sigma Methodologies.
D Explain Capability Maturity Model with Diagram.
E State the difference between Functional testing and Structural testing?
F Define Testing. Explain Testing Principle.

Q.4 Attempt any three of the following: 15

A Explain Spiral Model and write its advantages and disadvantages.

B Define SRS. Elaborate the Components of SRS with Explanations.
C Discuss the concept of defect removal efficiency.
D Explain the process of make/buy decision.
E Describe RMMM Plan in detail.
F Define and explain ISO Quality Standards.

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