TE - Sem V - INFT - C - Scheme R-19 Winter 2025

(3 Hours) **[Total: 80 Marks]**

NOTE: (1). Question number 1 is compulsory.
(2).Attempt any three questions from the remaining.
(3).Assume suitable data wherever necessary.

Q1. Solve any Four out of Six. (Each question carries 5 marks) (20)

(a) Explain software Engineering process and applications of software?

(b) Discuss why RAD software process model is suitable for small sized Projects?

(C) Explain the activities involved in software requirement analysis?

(d) Explain 3 P's in software Project spectrum?

(e) Explain about software size estimation Techniques?

(f) Explain with example about WBS in software Engineering?

Q2. (a) Explain stages of Software development life cycle and levels of CMM In detail? (10)

(b) Explain about Software requirement specification with example? (10)

Q3. (a) Draw and explain with a suitable example state transition diagram, Activity diagram and use case diagram? (10)

(b) Explain difference between coupling and cohesion? (10)

Q4. (a) Explain in detail the Software configuration Management Process and benefits of SCM? (10)

(b) Explain the steps of software quality assurance plan? (10)

Q5. (a) Explain about Project scheduling technique in detail, with example about PERT technique? (10)

(b) Explain about Function point Estimation with example? (10)

Q6. (a) Write a note on Software Re-engineering and reverse engineering? (10)

(b)Explain in detail different methods of software testing? Discuss the difference between black box and white box testing? (10)

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