

(3 Hours)

[Total Marks: 80]

- 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) Describe the characteristics, nature of software and explain the layered structure of software Engineering?
 - (b) Explain Prototyping concept required in Spiral software Process Model?
 - (c) Explain about Object based Estimation Technique?
 - (d) Explain the Golden rules of User- interface design?
 - (e) Discuss about Software Reengineering and Reverse Engineering?
 - (f) Explain Mc Calls Quality factors?
- Q2. (a) Explain Scrum Agile Development Model and Scrum Process in Detail? (10)
- (b) Explain what is a V-Model? And discuss any one type of Incremental process models? (10)
- Q3. (a) Explain The Design Model, and draw deployment diagram, swim lane diagram for Online shopping ? (10)
- (b) Explain about refactoring, cohesion and coupling also benefits of high cohesion and low coupling? (10)
- Q4. (a) Explain Earned value Analysis? Find project EAC, ETC, where AC is 15000, BAC is 22000, EV IS 13000,CPI is 0.8? (10)
- (b) Explain about COCOMO II Model with example? (10)
- Q5. (a) Explain about Project scheduling and any one tracking Technique with example? (10)
- (b) Explain change control process in SCM in detail? (10)
- Q6. (a) Explain what is a risk? Different types of risk? And describe RMMM in detail? (10)
- (c) Explain the principles of software testing? Discuss the in detail difference between black box and white box testing technique? (10)
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