

(3 Hours)

Max. Marks: 80

- Note: 1. Q.1 Compulsory  
2. Solve Any 3 question form remaining questions

- Q1. a) Define software engineering and explain umbrella activities **5**  
b) Difference between white box and black box testing **5**  
c) Explain functional and non-functional requirements **5**  
d) Explain the golden rules for interface design **5**
- Q2 a) Elaborate COCOMO model for Cost estimation  
b) Illustrate the SCM process
- Q3. a) Describe the waterfall model and evolutionary process model **10**  
b) What is Risk management? Discuss Common sources of risk in IT projects? **10**
- Q4.A) What are the different phases in project life cycle with suitable example **10**  
b) What are the Agile Methodologies? Explain any of them **10**
- Q5. a) Develop the SRS of University Management system **10**  
b) Describe the details of FTR and Walkthrough **10**
- Q6. a) Explain project scheduling and describe CPM and PERT **10**  
b) Explain software reverse engineering in details **10**
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