

[5925]-262

S.E. (Computer/AI&DS)

Software Engineering

(2019 Pattern) (Semester - IV) (210253)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data if necessary.

- Q1)** a) Explain object oriented view of component level design with suitable example. [6]
- b) Explain FP based estimation technique? [6]
- c) What is project scheduling? What are the basic principles of project scheduling? [6]

OR

- Q2)** a) Explain COCOMO Model for project estimation with suitable example. [9]
- b) How LOC and FP used during project Estimation? Explain both Estimation techniques with suitable example. [9]

- Q3)** a) Explain guidelines for component level design. [6]
- b) Enlist the golden rules of User Interface Design. [6]
- c) Explain layered system architecture with neat diagram. [5]

OR

- Q4)** a) Describe notations used for deployment diagram. Describe the importance of Deployment diagram. [9]
- b) Explain the following architectural styles with merits/demerits : [8]
- i) Data-centered Architecture
 - ii) Data-flow architecture

- Q5)** a) What is Risk Identification? What are different categories of Risk? [6]
b) Define software Risk in detail. What are different types of Software Risk? [6]
c) What are the advantages of SCM Repository? Explain functions performed by SCM Repository. [6]

OR

- Q6)** a) What is Software Configuration Management (SCM) [9]
b) What is RMMM? Write short note on it? [9]

- Q7)** a) What are difference between white box testing and black box testing. [6]
b) Explain the software testing life cycle in detail. [6]
c) Explain bottom-up testing with its advantages. [5]

OR

- Q8)** a) What is system testing? Explain any three types system testing. [9]
b) Write note on Alpha and Beta Testing. [8]