

Total No. of Questions : 8]

SEAT No. :

PD4082

[Total No. of Pages : 2

[6402]-42

**S.E. (Computer Engineering)/(AIDS)/(Computer Science)/
(Computer Science & Design Engg.)
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, and Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

Q1) a) Discuss Estimation Using Use Case Points with the help of an example. **[8]**

b) Design and discuss the project decomposition and work task communication process. **[10]**

OR

Q2) a) Discuss any 2 of the following with suitable example: **[10]**

- i) LOC-Based Estimation
- ii) FP based estimation technique
- iii) Problem-Based Estimation

b) What are the basic principles of software project scheduling. Explain different tasks of project scheduling. **[8]**

Q3) a) Explain refinement and refactoring. Give the importance of Refactoring in improving the quality of software. **[8]**

b) With the help of diagram explain how to translate the requirements model into the design model. **[9]**

OR

Q4) a) What is software Architecture? Why Architecture is important? What is the use of Architecture Decision Description Template? **[9]**

b) Enlist the golden rules of User Interface Design. **[8]**

Q5) a) Explain Risk and management concern with the help of diagram. **[8]**

b) Discuss any two of the following. **[10]**

- i) Risk Refinement
- ii) Risk Mitigation
- iii) Risk Management

OR

P.T.O.

- Q6)** a) What are the advantages of SCM Repository? Explain functions performed by SCM Repository. [8]
- b) Discuss layers of SCM Process. Write a short note on Change control mechanism in SCM. [10]

- Q7)** a) Define testing? Explain graph based functional testing techniques with suitable example. [9]
- b) Discuss any two of the following. [8]
- i) bottom-up testing with its advantages
 - ii) Software Testing Life Cycle
 - iii) Alpha and Beta Testing

OR

- Q8)** a) What is system testing? Explain any three types system testing. [8]
- b) Explain with suitable diagram Drivers and stubs in unit test environment. Discuss with suitable top-up and bottom-up integration in integration testing. [9]

