P-1533



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S.E. (Computer/A.I.& D.S.) SOFTWARE ENGINEERING

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

Time : $2^{1/2}$ Hours [Max. Marks : 70 Instructions to the candidates: Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8 1) Neat diagrams must be drawn wherever necessar 2) Figures to the right side indicate full marks. 3) Assume suitable data, if necessary. **4**) Q1) a) Explain any four design concepts with appropriate example. [9] What is design pattern? How patterns can be used in design? [9] b) Explain the Data-flow architecture and Layered Architecture in detail. *Q2*) a) [9] Explain the golden rules for User Interface Design. b) What question needs to be answered in order to develop a project plan *Q3*) a) according to W⁵HH principle? [9] Explain the project management life cycle. [8] b) OR Explain with appropriate example how schedule can be prepare using PERT. [9] List and explain the different metrics in the process and project domain. b) [8] *Q*5) a) Describe the software quality dilemma in your own words. [9] What are the objectives of testing? Explain the different types of testing. b) [9] *P.T.O.*

- OR
- Q6) a) What is software quality? Write the different quality metrics. [9]
 - b) What is test case design? Write the various approaches for test case design. [9]
- **Q7**) a) What is SCM: Write short note on SCM Elements. [9]
 - b) What is Risk? Explain the reactive and proactive risk strategies with appropriate examples. [8]

OR

Q8) a) Explain the repository features with respect to software configuration management. [9]

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b) Write short note on CASE TOOLS for software development. [8]