

Total No. of Questions : 8]

SEAT No. :

P-1533

[Total No. of Pages : 2

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**S.E. (Computer/A.I.& D.S.)**  
**SOFTWARE ENGINEERING**  
**(2019 Pattern) (Semester - IV) (210253)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer 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) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data, if necessary.*

**Q1)** a) Explain any four design concepts with appropriate example. [9]

b) What is design pattern? How patterns can be used in design? [9]

OR

**Q2)** a) Explain the Data-flow architecture and Layered Architecture in detail. [9]

b) Explain the golden rules for User Interface Design. [9]

**Q3)** a) What question needs to be answered in order to develop a project plan according to W<sup>5</sup>HH principle? [9]

b) Explain the project management life cycle. [8]

OR

**Q4)** a) Explain with appropriate example how schedule can be prepare using PERT. [9]

b) List and explain the different metrics in the process and project domain. [8]

**Q5)** a) Describe the software quality dilemma in your own words. [9]

b) What are the objectives of testing? Explain the different types of testing. [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]  
b) Write short note on CASE TOOLS for software development. [8]

