P-1533

[6002]-162

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^5HH 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.

<center>OR</center>

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]**

<center>OR</center>

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

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

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