Total No. of Questions : 8]

SEAT No. : ☐

P-1533

[Total No. of Pages : 2

[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]**

<div align="center">OR</div>

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]**

<div align="center">OR</div>

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]**

<div align="right">***P.T.O.***</div>

<div align="center">OR</div>

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]**

<div align="center">OR</div>

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

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

<div align="center">□□□</div>