

Total No. of Questions : 10]

SEAT No. :

P3390

[Total No. of Pages : 2

[5353] - 593

T.E. (IT)

SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

(2015 Pattern)

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, Q.7 or Q.8, Q.9 or Q.10.
- 2) Draw neat diagrams and assume suitable data wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) a) Explain any 5 types of software along with an example. [5]

b) What is data modeling? Explain following terms in data modeling : [5]

- Data objects.
- Data attributes.
- Relationships.

OR

Q2) a) What are different processes in project time management? [5]

b) How to prioritize software requirements based on Kano Analysis? [5]

Q3) a) What is meant by network diagram? What are different ways of drawing the network diagram. [5]

b) Explain spiral model in detail. [5]

OR

Q4) a) Explain in detail following UML diagrams stating purpose and applicability [6]

- i) Use case diagram.
- ii) Activity diagram.

b) Discuss software myths and realities in customer perspective. [4]

P.T.O.

- Q5) a)** Draw and explain concept of SCRUM. [8]
b) Explain concept of burn-down chart with a diagram. [8]

OR

- Q6) a)** Explain Pair Programming and its benefits. [8]
b) Explain Agile manifesto and agility principles. [8]

- Q7) a)** What is Software Risk Management? What are the risks associated with software projects? How do project managers manage such risks. [10]
b) Differentiate between Software Quality Assurance & Software Quality Control. [8]

OR

- Q8) a)** Define and explain importance of Software Quality Assurance. Explain various factors that affect Software Quality. [10]
b) Explain different statistical tools used quality control. [8]

- Q9) a)** What is the goal of cleanroom testing? Discuss in brief statistical use testing. How do we certify a software component in cleanroom testing? [8]
b) What is configuration management repository? Discuss role and features of SCM repository. [8]

OR

- Q10) a)** What are the challenges of global software development? [8]
b) Explain in detail ERP implementation life cycle. [8]

