

Total No. of Questions : 10]

SEAT No. :

P2515

[Total No. of Pages : 2

[5253] - 544

T.E. (I.T.)

**Software Engineering & Project Management
(2015 Pattern)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Solve any 1 out of Q1 or Q2 and.*
- 2) Solve any 1 out of Q3 or Q4 and.*
- 3,) Solve any 1 out of Q5 or Q6.*
- 4) Draw neat diagrams and assume suitable data wherever necessary.*
- 5) Figures to the right indicate full marks.*

- Q1)** a) Explain Software Process Framework. **[5]**
b) Explain prototyping model along with their relative merits and demerits. **[5]**

OR

- Q2)** a) Explain in brief requirement elicitation techniques. **[5]**
b) What are components of a use case diagram? Explain their usage with the help of an example. **[5]**
- Q3)** a) Explain in detail Requirement Engineering functions. **[5]**
b) Explain work breakdown structure with an example. **[5]**

OR

- Q4)** a) Explain with an diagram prioritizing software requirements based on Kano Analysis. **[5]**
b) What is meant by project scheduling? What is its importance? Explain reasons for cause of schedule conflicts. **[5]**
- Q5)** a) Explain in brief the SCRUM process with the help of diagram? **[10]**
b) Explain in brief Agile Manifesto. **[6]**

OR

P.T.O.

- Q6)** a) Explain in brief the agile practices of pair programming and test driven development? [10]
b) State and explain agility principles. [6]

- Q7)** a) Explain in brief risk mitigation, monitoring, and management? [10]
b) What is Software Quality Assurance? Explain various factors that affect Software Quality? [6]

OR

- Q8)** a) Explain in brief Ishikawa tools used for quality management? [10]
b) What are the common sources of risk in IT projects? [6]
- Q9)** a) Explain in detail ERP implementation life cycle. [8]
b) What are the different process trends in software engineering? [6]
c) What is meant by business process reengineering? [4]

OR

- Q10)** Write short note on : [18]
a) Test driven development.
b) Collaborative Development.
c) Software Configuration management tools.

