

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.

