P2515

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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

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.

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