

Total No. of Questions : 10]

SEAT No. :

P2471

[Total No. of Pages : 2

**[5253] - 194**  
**T.E. (Information Technology)**  
**SOFTWARE ENGINEERING**  
**(2012 Pattern) (Semester - I)**

*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, Q.9 or Q.10.*
- 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) Define Software. Compare software & hardware based on their failure curves. [5]

b) Discuss any five software myths & realities. [5]

OR

**Q2)** a) What is unified process? How steps of unified process can be used in Building a website that hosts All-India Entrance test. [5]

b) Write short note on Extreme Programming (XP). [5]

**Q3)** a) What is SCRUM? Describe SCRUM process framework. [5]

b) Draw use case diagram for Library Management System. [5]

OR

**Q4)** a) Explain any five Requirement Engineering Tasks. [5]

b) List different Agile practices. Explain Test driven development. [5]

**Q5)** a) Explain any five issues consider for designing software. [8]

b) What is software architecture? Explain Data centered and object oriented architectural style of the system. [8]

OR

**Q6)** a) What is functional Independence? Differentiate between coupling functional independence and cohesion functional independence. [8]

b) State elements of Design model? What are the elements of architectural design? Explain design principles [8]

**P.T.O.**

- Q7)** a) What is Fitt's Law? How is it used in UI design? [8]  
b) Write short note on Interface Designs Principles. [8]

OR

- Q8)** a) What are different models in interface analysis and design? Explain each model in detail. [8]  
b) Explain Shneiderman's 8 golden rules. [8]

- Q9)** a) i) What are challenges of Global Software Development?  
ii) Short note on collaborative development. [8]  
b) How do we certify a software component during cleanroom testing?[10]

OR

- Q10)**a) Explain SCM process in detail. [8]  
b) Write short note on Taxonomy of CASE tools [10]

