YENISI - IV: WINTER - 2016

Subject : UML and Design Patterns

Day: Tuesday Time: 02.00 P.M. TO 05.00 P.M. S.D.E. Max Marks: 80 Total Pages: 1 Date: 06/12/2016 N.B.: 1) Attempt ANY FIVE questions from Section – I and attempt ANY TWO questions from Section – II. 2) Answers to both the sections should be written in the **SAME** answer book. 3) Figures to the right indicate **FULL** marks. SECTION - I **Q.1** Describe the following terms: [10] Aggregation a) Class qualifiers **b)** Generalization d) Multiplicity **Q.2** Illustrate the use of component and deployment diagram with example. [10] Q.3 What is prototyping? Explain design pattern which uses this? [10] Explain the proxy design pattern with its indent, structure and applicability. **Q.4** [10] What is use of observer design pattern? Explain if with Indent, Structure and [10] Q.5 Applicability. **Q.6** What is state diagram? Explain its use in software modeling with example. [10] Write short notes on **ANY TWO** of the following: **Q.7** [10] a) Interpreter Singleton b) Package diagram **SECTION - II** Draw use case diagram and class diagram for online railway reservation [15] **Q.8** system. Write scope and assumptions. What is role of activity diagram in software engineering? Draw activity [15] **Q.9** diagram for withdrawing money from ATM. What is sequence diagram? Draw sequence diagram for buying product from Q.10 [15] online shopping system. Write scope and assumptions.