

14. a) Explain about activity diagram with an Example. 13,K2,CO5
OR
b) Illustrate UML sequence diagram notations briefly using an example. 13,K3,CO5
15. a) What is GRASP? Describe the design patterns and principles used in it. 13,K2,CO6
OR
b) Explain any five of the GOF Design pattern in detail. 13,K2,CO6

PART - C (1 × 15 = 15 Marks)

16. a) Draw a class diagram for Library Information System which comprises the following notations and explain them. 15,K3,CO4
(i) Aggregation (ii) Composition (iii) Association.
OR
b) For an ATM system, every user has to be validated with a PIN number to make a transaction. A customer is allowed 3 times to validate a card giving the correct PIN number. Show the Use Case representation for the same and summarize the "Validate User" Use Case using sequence diagram. Assess and represent the class. 15,K3,CO4