

PART B — (5 × 16 = 80 marks)

11. (a) Briefly explain the different phases of unified process.

Or

- (b) (i) Describe the basic activities in object oriented analysis and explain, how use case modeling is useful in analysis. (10)
(ii) Explain about the Next Gen POS system. (6)

12. (a) Explain the method of identifying the classes using the common class approach with an example. (16)

Or

- (b) For the hospital management system draw the following UML diagrams :
(i) Conceptual class diagram (overall system) (8)
(ii) Activity diagram (Billing). (8)

13. (a) Briefly explain about UML sequence diagrams.

Or

- (b) Describe the UML notation for class diagram with an example. Explain the concept of association and inheritance.

14. (a) Explain about GRASP Patterns. (16)

Or

- (b) Write short notes on adapter, singleton, factory and observer patterns. (16)

15. (a) Explain UML state machine diagrams and modeling.

Or

- (b) Write short notes about the following :
(i) Operation contacts (6)
(ii) Implementation model (mapping design to code). (10)