

S.No. 582

12PCAZ02

(For the candidates admitted from 2012-2013 onwards)

M.C.A. DEGREE EXAMINATION, NOVEMBER 2017.

Third Semester

OBJECT ORIENTED ANALYSIS AND DESIGN

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) What is an object? Explain with example.
Or
(b) Give an note on the nature of a class.
2. (a) Explain the elements of the notation.
Or
(b) Draw an interaction diagram and explain its feature.
3. (a) Draw a module diagram and explain it with an example.
Or
(b) Write the basic principles of development process.

4. (a) Give short notes on singleton pattern with an example.

Or

- (b) Describe observer pattern.

5. (a) Give a short overview on different object oriented programming languages.

Or

- (b) Give short notes on UML.

PART B — (5 × 10 = 50 marks)

Answer ALL the questions.

6. (a) Explain the elements of the object model with example.

Or

- (b) Discuss on interplay of classes and objects.

7. (a) How will you identify classes and objects? Explain with an example.

Or

- (b) Discuss on the state transition diagram with a proper example.

8. (a) Explain the object diagram with a suitable example.

Or

- (b) Discuss on micro development process.

9. (a) Explain the following :

(i) Mediator pattern.

(ii) Visitor pattern.

Or

- (b) Discuss on :

(i) Prototype pattern.

(ii) Builder pattern.

10. (a) Explain the features of C++ as an object oriented programming language.

Or

- (b) Draw a suitable UML diagram for credit card management system and explain the same.