

AR-2506

Faculty of Engineering & Technology

M.C.A. First Year Semester-II (C.G.S.) Examination

OBJECT ORIENTED PROGRAMMING

(15511)

Paper-2 MCA 2

Time : Three Hours]

[Maximum Marks : 80

INSTRUCTIONS TO CANDIDATES

- (1) All questions carry marks as indicated.
- (2) Illustrate your answers wherever necessary with the help of neat sketches.

1. (a) Explain Software Life Cycle model with suitable diagram. 7
- (b) Write and explain the structure of VB.net application. 6

OR

2. (a) Write and explain several ways in which object relates to other object. 6
- (b) What is class ? Explain designing of class with example. 7
3. (a) What do you mean by enumeration ? Write its advantages. 6
- (b) What do you mean by reference type variable and value type variable ? Write difference between them. 7

OR

4. (a) State the variety of scope for an identifier. Explain module scope and namespace scope with example. 7
- (b) Define class. Write program for calculator. 6
5. (a) Write and explain different data structure types in VB.net. 7
- (b) Explain the concept of code inheritance with suitable example in VB.net. 7

OR

6. (a) Write program in VB.net to find largest element in an array. 7
(b) Explain with example, how polymorphism used in VB.net. 7
7. (a) What do you mean by event handler ? Explain. 6
(b) How dialog box is used for user interface ? Explain with example. 7

OR

8. (a) Explain the concept Visual Inheritance. Also write benefits of Visual Inheritance. 6
(b) What are the different basics of winform ? Explain their use in application. 7
9. (a) What is control ? Write common properties of winform control. Explain accessing of control on form with example. 7
(b) Write and explain application responsibilities in three tier system. 6

OR

10. (a) What do you mean by object modeling ? Explain real world object modeling with example. 7
(b) How scarce resources are managed in various situations ? Explain. 6
11. (a) Explain relational database in VB.net. Give example. Also write principles of relational database. 7
(b) What is stream ? Explain. Also write program to read and write data from stream. 7

OR

12. (a) Explain the role of data set class in detail. Also write code to create form for displaying authors detail from Biblio database using dataset. 7
(b) What is serialization ? Explain with example. 7