

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain with example enumerations and arrays in C#. (8)  
(ii) List out important characteristics of C#. (8)

Or

- (b) (i) Discuss the type of parameter passed to methods of C#. (8)  
(ii) Discuss about mutable strings with example. (8)
12. (a) (i) How does C# support multiple inheritance? Explain giving an example. (8)  
(ii) Describe the use of properties, with an example. (8)

Or

- (b) (i) Write a program to find area of various shapes like rectangle, circle and triangle using the concept of interfaces. (8)  
(ii) What do you mean by delegates? State their use with an example. (8)
13. (a) Explain the exception handling mechanism in C#. Write user defined exceptions for overflow and stack empty exceptions in a class created for stack data structure.

Or

- (b) (i) Develop a C# program to write student database in a flat file and read from the same file and print the 'marklist' of students. (10)  
(ii) Explain : Multi-threading with example. (8)
14. (a) Write a menu-driven application using (i) File Menu option (ii) About Menu option. Demonstrate the execution model using an example.

Or

- (b) How would you build an XML web service? Explain with an example.
15. (a) (i) What is reflection? Explain its use with example. (8)  
(ii) What is remoting? Explain the steps involved in the process of creating remoting application. (8)

Or

- (b) Write notes on the following :
- (i) Assemblies. (8)  
(ii) .NET coding design guidelines. (8)