Reg. No. | | | | | | | | | | | | |

Question Paper Code : 51360

15/6/16 FN

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Seventh Semester

Computer Science and Engineering

CS 2041/CS 706/10144 CSE 42 – C# and .NET FRAMEWORK

(Common to Information Technology)

(Regulations 2008/2010)

Time : Three Hours **Maximum : 100 Marks**

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Write the difference between readonly and const keywords.
2. What is CLR with respect to .Net Framework.
3. Differentiate value type and reference type ?
4. What is the difference between structure and class ?
5. What are implicit and explicit conversions ?
6. List out different types of applications that can be created in .Net.
7. What is copy constructor ? Write its syntax.
8. Write the use of page directive in an example.
9. Define: serialization.
10. Differentiate DataReader and DataAdapter.

PART – B (5 × 16 = 80 Marks)

11. (a) (i) Write a program to implement a Stack data structure. **(8)**

(ii) Compare C# and Java Features. **(8)**

OR

(b) (i) Demonstrate the use of keywords ref, out, params with the suitable example. **(8)**

(ii) Write a program to overload the function for sorting. **(8)**

12. (a) (i) Demonstrate the use of multicast delegate. **(8)**

(ii) What are indexers ? Explain. **(8)**

OR

(b) Write a program to find area of various shapes rectangle, circle, triangle. Use the concept of inheritance and polymorphism. **(16)**

13. (a) Write a program to implement library management system. **(16)**

OR

(b) Implement GuestBook with name, email and comment textboxes and necessary controls to validate these fields. It should be able to view the guests using datagridview.

14. (a) (i) Compare ADO and ADO.Net. **(8)**

(ii) List out the categories of controls supported in Web based application and explain the importance of each. **(8)**

OR

(b) Write a program to implement a web application for student management.

15. (a) Write notes on the following with example :

(i) Assembling

(ii) Versioning **(8 + 8)**

OR

(b) (i) Write a program to explain building the web service. **(8)**

(ii) Explain .Net refection with example. **(8)**