



K21U 0869

Reg. No. :

Name :

**IV Semester B.Sc. Degree (CBCSS – Sup./Imp.) Examination, April 2021
(2014 – '18 Admissions)
Core Course in Computer Science
4B05CSC : C# and .NET Programming**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer. **(8×0.5=4)**
- a) _____ is the simultaneous execution of multiple tasks or processes over a certain time interval.
 - b) MSIL stands for _____
 - c) _____ can contain methods, properties, indexers and events as its members.
 - d) The Virtual Machine component of the .NET Framework is termed as _____
 - e) An _____ is an incomplete class or special class we can't be instantiated.
 - f) A _____ is a delegate that holds the references of more than one function.
 - g) The keyword _____ is used to declare a list of named integer constants.
 - h) Web services are small units of code, designed to handle a limited set of tasks. using _____ based communication protocols.

SECTION – B

Write short notes on **any seven** of the following questions. **(7×2=14)**

- 2. What are the uses of indexers ?
- 3. List the difference between abstract classes and interfaces.
- 4. What is the relationship between specialization and generalization ?

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5. Mention three important features of *properties* in C#.Net.
6. List out any 4 applications of C#.
7. What are structures ?
8. What is meant by CTS ?
9. Justify that operators need to be overloaded. List the operators that cannot be overloaded.
10. What is the purpose of sealed classes in C# ?
11. What is .NET assembly ?

SECTION – C

Answer **any four** of the following questions.

(4×3=12)

12. Narrate the process of handling events through delegates.
13. Explain multitasking and multithreading in C# with suitable examples.
14. Write in brief about operator overloading.
15. Describe exception handling in C#.
16. Explain properties, arrays and indexers.
17. State about Web form events in detail.

SECTION – D

Answer an essay on **any two** of the following questions.

(2×5=10)

18. Develop a C# application that demonstrates dynamic polymorphism.
 19. Write a program to find the area of various shapes like rectangle, circle and triangle using the concept of interfaces.
 20. Illustrate with an example how the events are generated and handled in C#.
 21. Explain Web Form Life cycle.
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