B. C. A. Examination 2021-22

(Even Semester)

BASIC OF .NET FRAMEWORK & C#

Time : Three Hours]   **[Maximum Marks : 60**

Note :–   Attempt all questions.

SECTION – A

1. Attempt all parts of the following : $8 \times 1 = 8$

    (a)   Explain built-in data types in C#.

    (b)   How does an arraylist differ from array?

    (c)   Differentiate multitasking and multithreading.

    (d)   What is the use of static constructor in C#?

    (e)   What are the advantages of using a dataset?

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(f)   Name any 4 system defined exceptions.

(g) . Differentiate between for loop and foreach loop.

(h)   Write down the use of finally in exception handling.

SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$

(a)   How to define class in dot net? Write down code for operator overloading through classes.

(b)   Discuss about matable string in C# with example.

(c)   What do you mean by delegates? State their use with an example.

(d)   Write short note on the following :

(i)   UDDI

(ii)   WSDL

(iii) DISCO

SECTION – C

Note:-   Attempt any two parts of the following. Each part carry equal marks. $8 \times 5 = 40$

3. (a) Write down short notes on common language runtime (CLR) in .NET.

(b) Explain the salient features of .NET framework. Also explain various components in .NET framework.

(c) Write short notes on :

(i) JIT

(ii) CTS

(iii) CLS

(iv) FCL

4. (a) Explain various control and looping statement available in C#.

(b) Define inheritance. Write a C# program to demonstrate the use of inheritance.

(c) Explain the cocept of boxing and unboxing with suitable example.

5. (a) Explain differect types of assembly in .NET.

(b) Explain various input-output classes used in .NET technology.

(c)   What is multithreading? How threads are created and handled in C#? Explain with suitable example.

6.   (a)   Compare the architecture of ADO and ADO .NET.

     (b)   Differentiate between dataset and data reader.

     (c)   What do you understand by exception handling? How it is handled in C#? Explain with suitable example.

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