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AW–1749

B.Sc. (Part—III) Semester—V Examination

5S : COMPUTER APPLICATION/INFORMATION TECHNOLOGY

(Programming in C#)

Time : Three Hours]   [Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Question **1** carries **8** marks and all other questions carry **12** marks.

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :

(i) _____ are the non executable statements of a C# program.   ½

(ii) _____ is called automatically whenever an object is destroyed.   ½

(iii) In operator overloading it is not possible to change _____ and _____ of an existing operator.   ½

(iv) _____ is used for multiple decision making.   ½

(B) Choose the correct alternative :

(i) _____ is used to convert the result of an expression into desired type.   ½

(a) typing   (b) type casting

(c) update   (d) change

(ii) In method overloading the method name is same, but changes must be in,   ½

(a) Type of arguments   (b) Number of arguments

(c) Sequence of arguments   (d) Any of these

(iii) _____ are just used for Inheritance.   ½

(a) Abstract class   (b) Base Class

(c) Derived class   (d) None

(iv) _____ is used to take a part of a string.   ½

(a) copy ( )   (b) compare ( )

(c) length ( )   (d) substring ( )

(C) Answer the following in one sentence :—   4

(i) What is MSIL ?

(ii) What is (? :) ?

(iii) What are constants ?

(iv) What are events ?

) State and explain the difference between C++ and C#.   6

(B) Explain the .NET framework.   6

OR

3. (A) State and explain the characteristics of C#.   6

   (B) What is .NET approach ? State and explain its advantages.   6

4. (A) State and explain the structure of C# program.   6

   (B) What are the data types supported by C# ? Explain.   6

OR

5. (A) What is command line argument ? Explain.   6

   (B) Explain :

      (i)   Default Values

      (ii) Reference type

      (iii) Constant.   6

6. (A) What are bitwise operators ? Explain.   6

   (B) Write a program to check whether Input year is Leap year or No: in C#.   6

OR

7. (A) Write a program in C# to print table of a number.   6

   (B) How multiple decision making is done in C# ? Explain with example.   6

8. (A) State and explain types of Parameters used in method.   6

   (B) Write a program in C# to print transpose of a matrix.   6

OR

9. (A) How strings are handled in C# ? Explain with example.   6

   (B) Write a program to search a number in an array using sequential search.   6

10. (A) State and explain the difference between structure and class.   6

    (B) What is enumerator ? Explain.   6

OR

11. (A) What are constructors ? Explain types of constructors.   6

    (B) Explain the following :—

       (i) this

       (ii) static members.   6

12. (A) What are Interfaces ? Explain.   6

    (B) What is operator overloading ? Explain.   6

OR

13. (A) What are delegates ? Explain.   6

    (B) What is an Abstract class ? Explain with example.   6

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