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BSc IT 2010 : C#

Answer key / correct responses on:

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(3 Hours)

[Total Marks : 100]

- N. B.: (1) Question No. 1 is compulsory.
 (2) Attempt any four from Question Nos. 2 to 7.
 (3) Make suitable assumptions wherever necessary and state the assumptions made.
 (4) Answers to the same question must be written together.
 (5) Numbers to the right indicate marks.
 (6) Draw neat labeled diagrams wherever necessary.

- | | | | |
|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1 | a | In C#, how can we prevent a class from being further sub-classed and a method from being further overridden? | 5 |
| | b | Explain in detail smart fields and sealed classes. | 5 |
| | c | Explain in detail the tool available for searching and manipulating text. | 5 |
| | d | Explain the class that can store a dynamically sized array of objects. | 5 |
| 2 | a | Design a structure type using suitable name for a mailing list consisting of name, door number, street, city, and pin-code. Develop a program that prompts the user to input these details and stores them in the structure. Display details in appropriately. | 8 |
| | b | Explain in detail Method Parameters. | 6 |
| | c | Write a note on the Common Language Runtime. | 6 |
| 3 | a | Write a program to illustrate explicit interface implementation. | 8 |
| | b | Write a note on Jumps in Loops. Illustrate the use of jump statements with a program. | 6 |
| | c | What are the characteristics of C#? | 6 |
| 4 | a | Define a class Vector to hold three integer values. Include operator methods such that we shall be able to perform the following operations on the vector object V1, V2 and V3.
(i) $V3 = V1 + V2$; (ii) $V3 = 5 * V1$;
(iii) $V3 = V2 * 5$; (iv) $int m = V1 * V2$; | 8 |
| | b | Explain in detail the Switch statement. | 6 |
| | c | What are the various categories of variables defined in C# based on their scope? | 6 |
| 5 | a | Write a program that will read a string and rewrite it in alphabetical order.
E.g.: MONDAY is printed as ADMNOY. | 8 |
| | b | Write a note on Operator Precedence and Associativity. | 6 |
| | c | What are the steps involved in creating and using delegates? | 6 |
| 6 | a | Write a program to illustrate the use of the following format characters:
Decimal separator (.)
Percent character (%)
Comma (,)
Pound character (#) | 8 |
| | b | Write a note on Data Types in C#. Also explain Value and Reference Types. | 6 |
| | c | Write a note on Operators in C#. | 6 |
| 7 | a | Write a program that will read a name from the keyboard and display it on the screen. The program should throw an exception when the length of the name is more than 10 characters. Design your own exception mechanism. | 8 |
| | b | Write a note on Multiple Main Methods and Command Line Arguments. | 6 |
| | c | Write a note on Constructors. Also explain in detail its different types. | 6 |