

S.No. : 41

MCA 2503

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21253

Roll  
No.

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**MCA. Examination 2018-2019**

**(Fifth Semester)**

**.NET FRAMEWORK AND 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) Briefly describe the .Net framework.
  - (b) What are the features of C# Language?
  - (c) How many types of Inheritance are supported by C # ?
  - (d) What is common type system?
  - (e) What are the various looping constructs in C#?
  - (f) What is Assembly and Meta data in .Net?

***[ P. T. O.***

- (g) What do you mean by Garbage collection?
- (h) How is a Web Config file different from machine config file?

**SECTION – B**

2. Attempt any two parts of the following :  $6 \times 2 = 12$
- (a) Enumerate and describe main features of net framework.
  - (b) Explain Framework? Class library and Common Language Runtime.
  - (c) What is just in time compilation? How is it carried out in .Net? How many types of JIT compilers are there? Explain with the help of a diagram.
  - (d) Describe V.S. Net IDE.

**SECTION – C**

**Note:-** Attempt all questions. Attempt two parts from each question.  $5 \times 8 = 40$

3. (a) What are Web Services? How does XML contribute to Web Services.

- (b) What are delegates in .Net? Why are they needed. Explain with the help of a program. What is an event?
- (c) How are properties implemented in C#. Why are they used? Support your answer with a program.
4. (a) Compare and contrast C# with C++ and Java.
- (b) What is an interface? Why is it specially important in C#? How is it comparable to an Abstract Class?
- (c) What is Early and Late binding in polymorphism. Show with the help of a program.
5. (a) With the help of a suitable diagram, explain the various states of a Thread.
- (b) What are the various techniques for State Management in ASP. Net?
- (c) Design a Windows Application to calculate simple Interest where :

$$SI = P * R * T/100$$

P : Principal Amount

***[ P. T. O. ]***

R : Rate of Interest

T : Time in Months

6. (a) What is ADO.Net. Design its architecture? How is Data Reodes different from data adapter?
- (b) Write short notes on :
- (i) UDDI
  - (ii) DISCO
  - (iii) WSDL
  - (iv) Implementation of a distributed Application in .Net.
- (c) Explain the various Validation contrds in a web form alongwith their properties.

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