Roll No. .....

## 67241

# MCA 5th Sem. (Non CBCS Scheme) Examination – May, 2019

#### ADVANCED TECHNOLOGY

Paper: MCA-501

Time: Three Hours

[ Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Question No. 1 is compulsory. In addition to Question No. 1, attempt four more questions by selecting at least one question from each Unit. All questions carry equal marks.

- 1. (i) How interoperability feature in useful?
  - (ii) What do you understand by Intermedia language?
  - (iii) Explain the concept of Component based software development.
  - (iv) Show the evolution of C# language diagrammatically.
  - (v) How further inheritance of a class can be restricted in C# language?

67241-550 -(P-3)(Q-9)(19)

P. T. O.

https://www.haryanapapers.com

https://www.haryanapapers.com

## (vi) What role does destructor play in ADO.NET environment?

- (vii) What are overriding methods along with the concept of hiding methods?
- (viii) Why it is advantageous to use data grid for manipulating the data?

#### UNIT - I

- 2. (i) What is .NET platform? Explain its different components making it different from other programming environment.
  - (ii) How COM technology is different from OLE technology? Explain.
- 3. (i) Explain the following: JIT, CTS, CLS & Framework Base classes.
  - (ii) Define assemblies. Describe the procedure of creating an assembly.

#### UNIT - II

- 4. (i) What do you understand by the method modifiers? Give the description of override, sealed, extern and virtual method modifiers.
  - (ii) What is the difference between System. Array and Array List class? Mention four properties and four functions for each type of class.
- Enumerate the implementation and usefulness of overloaded and static constructors in C# language.
  - (ii) Differentiate between constant members & read only members and between properties & indexers with appropriate examples.

67241--(P-3)(Q-9)(19) (2)

### UNIT - III ,

- **6.** (i) Write down how ADO.NET supports the Data caching in datasets.
  - (ii) Explain the architectural object model of ADO.NET with the help of labeled diagram.
- 7. (i) What is the role of Currency manager to navigate between records? Explain with the help of diagram.
  - (ii) Discuss how data adapter helps in establishing a connection with database. Explain the complete process of creating the data adapter.

### UNIT - IV

- 8. (i) What is State management? Explain different categories in which State management can be classified.
  - Briefly discuss the anatomy of ASP.NET.
- 9. (i) What are the advantages of using Web Services? Also mention different core elements of it.
  - (ii) What do you mean by Authentication Controls? Explain any two such controls with their respective formats.

https://www.haryanapapers.com

67241- -(P-3)(Q-9)(19) (3)