

- N.B:
- (1) **All questions are compulsory.**
 - (2) **Make suitable assumptions** wherever **necessary** and **state the assumptions** made.
 - (3) **Answer** to the **same questions** must be **written together.**
 - (4) **Numbers** to the **right** indicate marks.
 - (5) Draw **neat** labeled **diagrams** wherever **necessary.**
 - (6) Use of **Non-programmable** calculators is **allowed.**

1. Attempt the following (any **TWO**) [10]
 - (a) What is fall through in switch with respect to switch in C#? Explain.
 - (b) Explain Exception Handling.
 - (c) Define each of the following terms:
 - (i) Derived class
 - (ii) Abstract class
 - (iii) Static class
 - (iv) Sealed class
 - (v) Partial class
 - (d) Demonstrate with the help of an example, the significance of properties in C#.

2. Attempt the following (any **TWO**) [10]
 - (a) What is an assembly? Explain its different components.
 - (b) Explain ASP.NET life cycle.
 - (c) What is delegate? Explain delegate deputation and delegate instantiation with example.
 - (d) Explain delegate with example.

3. Attempt the following (any **TWO**) [10]
 - (a) When is CheckedChanged event of a Check Box fired? Describe the following properties:
 - (i) GroupName property of a Radio Button
 - (ii) Text property of a Label
 - (iii) TextMode property of a Text Box
 - (iv) Checked property of a Radio Button
 - (b) Explain Web.Config file.
 - (c) Explain the text box web server control. List and explain any four text box attributes.
 - (d) What is the place of Page directive? Explain its attributes.

4. Attempt the following (any **TWO**) [10]
 - (a) Explain the following validation controls with example.
 - (i) CompareValidator
 - (ii) CustomValidator
 - (iii) RangeValidator
 - (iv) RegularExpressionValidator
 - (v) RequiredFieldValidator
 - (b) What is state management? Explain View State and URL Encoding.
 - (c) Explain MasterPage and steps to create MasterPage.
 - (d) Write short descriptions for the following:
 - (i) Session state variables
 - (ii) SiteMapPath control

5. Attempt the following (any **TWO**) [10]
 - (a) Explain Command class and Data Adapter class with properties and methods.
 - (b) Explain ADO.NET architecture.
 - (c) Explain windows authentication in ASP.NET.
 - (d) What is Data Binding? Which are 2 types of data binding?

6. Attempt the following (any **TWO**) [10]
- (a) Write short notes on (i) LINQ to Objects (ii) Linq to XML
 - (b) Explain any five methods of JQuery.
 - (c) Explain the use of Update Progress control and Timer Control in AJAX.
 - (d) Explain the query operators SELECT, FROM, ORDERBY and WHERE in LINQ.
7. Attempt the following (any **THREE**) [15]
- (a) What is method overloading?
 - (b) What are the uses of AutoPostBack and runat properties?
 - (c) What is code-behind model in ASP.NET? How is it different from single file model?
 - (d) Explain Menu and Tree view site navigation controls.
 - (e) List the different places in the web application where ViewState field can be disabled?
 - (f) Explain ASP.NET provider model with its diagram.

Paper Discussion Schedule for all Subjects

| Date | Day | Timing | Centre |
|------------|----------|-------------------------|-----------|
| 5 Nov.2016 | Saturday | 9.00 a.m. to 11.00 a.m. | Ghatkopar |
| 5 Nov.2016 | Saturday | 12.00 p.m. to 2.00 p.m. | Thane |
| 5 Nov.2016 | Saturday | 3.00 p.m. to 5.00 p.m. | Dombivli |
| 6 Nov.2016 | Sunday | 9.00 a.m. to 11.00 a.m. | Dadar |
| 6 Nov.2016 | Sunday | 12.00 p.m. to 2.00 p.m. | Andheri |
| 6 Nov.2016 | Sunday | 3.00 p.m. to 5.00 p.m. | Borivali |
| 7 Nov.2016 | Monday | 9.00 a.m. to 11.00 a.m. | Nerul |

