Instructions : (1) All **questions are** compulsory.
　　　　　　　 (2) **Make suitable assumptions** wherever **necessary** and **state the assumptions** made.
　　　　　　　 (3) **Answers** 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 **THREE**)　　　　　　　　　　　**[15]**
   (a) Explain .Net FrameWork.
   (b) Explain Garbage Collection in .Net.
   (c) Explain Type Conversion in C#.
   (d) Explain Runtime polymorphism.
   (e) Explain Assembly and its component.
   (f) Explain Namespace in C#.

2. Attempt the following (any **THREE**)　　　　　　　　　　　**[15]**
   (a) Explain ASP.NET File Types.
   (b) Explain The Page Life Cycle.
   (c) Explain : 　(i) RangeValidator Control in ASP.Net
   　　　　　　 (ii) CustomValidator Control in ASP.Net
   (d) Explain AdRotator Control in Asp.Net.
   (e) Explain SiteMapPath in Asp.Net.
   (f) Explain Different methods to perform Redirection in Code.

3. Attempt the following (any **THREE**)　　　　　　　　　　　**[15]**
   (a) Explain Exception Handling.
   (b) Explain View State in Asp.Net.
   (c) Explain how state is managed using cookies.
   (d) Compare Session State and Application State Management techniques.
   (e) Explain types of selectors in CSS.
   (f) Explain relation between master page and content page.

4. Attempt the following (any **THREE**)　　　　　　　　　　　**[15]**
   (a) Explain in details connected Mode in ADO.NET.
   (b) Compare DataReader and DataAdapter.
   (c) Explain SqlCommand class in detail.
   (d) Explain how Repeated-Value Data Binding work?
   (e) Explain various data source controls in Ado.Net.
   (f) What is a GridView control?

5. Attempt the following (any **THREE**)　　　　　　　　　　　**[15]**
   (a) Explain XML Schema definition.
   (b) Explain Windows authentication in ASP.Net.
   (c) Explain Authorization in Asp.Net.
   (d) Explain the architecture of AJAX.
   (e) Explain the UpdatePanel Control in ASP.Net.
   (f) Explain UpdateProgress Control in Asp.Net.

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Paper Discussion Schedule for all Subjects

Date	Day	Timing	Centre
12 Nov. 2018	Monday	9.00 a.m. to 11.00 a.m.	Nerul
12 Nov. 2018	Monday	12.00 p.m. to 2.00 p.m.	Thane
12 Nov. 2018	Monday	3.00 p.m. to 5.00 p.m.	Dombivli
13 Nov. 2018	Tuesday	9.00 a.m. to 11.00 a.m.	Ghatkopar
13 Nov. 2018	Tuesday	12.00 p.m. to 2.00 p.m.	Andheri
13 Nov. 2018	Tuesday	3.00 p.m. to 5.00 p.m.	Borivali
14 Nov. 2018	Wednesday	9.00 a.m. to 11.00 a.m.	Dadar