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Reg. No. :

Code No. : 40382 E Sub. Code : JMCS 53/
JMSE 53/SMCS 53

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Fifth Semester

Computer Science / Software Engineering – Main

DOT NET TECHNOLOGIES

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. The software that requests files, data and services
 - (a) FTP
 - (b) HTTP
 - (c) Web Client
 - (d) Web Server

2. Data that cannot be modified once defined in a program.
 - (a) constants
 - (b) variables
 - (c) operators
 - (d) string
3. _____ are required when the user of the web application expects a meaningful response to a query issued from an HTML form.
 - (a) code behind
 - (b) round trips
 - (c) View State
 - (d) Objects
4. Visual appearance of _____ are controlled by shared properties.
 - (a) HTML Controls
 - (b) Web Controls
 - (c) Validation Controls
 - (d) Datalist Controls
5. _____ are structures that allow for insertion of elements at one end and removal of elements from the other.
 - (a) Stacks
 - (b) Arrays
 - (c) Queues
 - (d) Hash tables
6. Which function handles pushing and popping phrases onto and off of the stack?
 - (a) AddPhrase()
 - (b) Peek()
 - (c) Pop()
 - (d) Push()

7. The run time environment for the .NET Framework is called

- (a) Internet Information Server
- (b) Common Language Runtime
- (c) NET Framework Class Library
- (d) Managed Components

8. Classes of Web Services are contained within a _____ file.

- (a) aspx
- (b) ascx
- (c) asax
- (d) asmx

9. An arcane process known as _____ retrieves data from a virtual terminal session with the mainframe.

- (a) Screen Scraping
- (b) Scrap file
- (c) SQL
- (d) API

10. The area in which the user accounts database may live is on a machine called _____.

- (a) Local user accounts
- (b) Primary Domain Controller
- (c) Access Control List
- (d) Security Identifiers.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) List the components of ASP.NET and the .NET framework.

Or

(b) Describe the characteristics of variables in VB.NET.

12. (a) Discuss the features of ASP.

Or

(b) Explain AdRotator Control with its syntax and properties.

13. (a) Brief on the common data set types in Data collections.

Or

(b) Write about the providers that can be used with Active Directory Services.

14. (a) Explain on the overview of transactions.

Or

(b) Describe the need for Web Services.

15. (a) Discuss ADO.NET: The Next Generation of Data Access Technology.

Or

(b) Explain Windows Security.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the Web Client/Server model.

Or

(b) Explain the different operators used in VB.NET.

17. (a) Explain the Anatomy of ASP.NET.

Or

(b) Explain ASP.NET Page Directives.

18. (a) List the properties and methods of the FileSystem Watcher Class.

Or

(b) Explain in detail Using Message Queues.

19. (a) Explain the Common Language Runtime.

Or

(b) Discuss the Web Service Wire formats of in detail.

20. (a) Explain how to filter and sort data with the Data View Class.

Or

(b) Describe IIS Authentication and Authorization Security.