

Seat No.	
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**B.C.A. (Semester – V) (Old) (CGPA) Examination March/April-2019
ADVANCED JAVA – I**

Day & Date: Tuesday, 09-04-2019
Time: 03:30 PM T 06:00 PM

Max. Marks: 70

- Instructions:** 1) Q. 1 and Q.7 are compulsory
2) Solve any two questions from Q. 2, 3 and 4
3) Solve any one question from Q.5 and 6
4) Figures to the right indicate full marks.

Q.1 A) Rewrite the following sentences by choosing the correct alternative 07

- 1) Which is the following statement false about XML?
 - a) XML is not Case sensitive
 - b) XML Simplifies Data Sharing
 - c) XML is self Descriptive
 - d) None of the above
- 2) A deployment descriptor describes _____.
 - a) Web component response setting
 - b) Web component setting
 - c) Web component request object
 - d) All of the above
- 3) Which of these functions is called to display the output of an applet?
 - a) display()
 - b) paint()
 - c) displayApplet()
 - d) PrintApplet()
- 4) In HTTP Request _____ method is secured because data is not append in URL.
 - a) GET
 - b) POST
 - c) Both A and B
 - d) PUT
- 5) Which is the return type of executeUpdate() method in JDBC?
 - a) int
 - b) String
 - c) ResultSet
 - d) Connection
- 6) XML stands for?
 - a) Extensible Markup Language
 - b) Extended Mashup Language
 - c) Extensible Mashup Language
 - d) X-Markup Language
- 7) _____ is used in web.xml to pass parameters to servletcontext.
 - a) <init-param>
 - b) <context-param>
 - c) <web-app>
 - d) <servlet-mapping>

B) State whether True or False

07

- 1) GenericServlet class can handle any type of request so it is protocol independent.
- 2) By default, the type of ResultSet is TYPE_SCROLL_FORWARD.
- 3) XML is the most common tool for data transmissions between all sorts of applications.
- 4) CallableStatements is used to execute procedure or function of SQL.
- 5) HttpServlet is a subclass of ServletConfig class.
- 6) DSN stands for Data Server Name.
- 7) ODBC stands for Object Data Base Connectivity.

- Q.2 Answer the following questions (Any Two) 14**
- a) What is an Applet? Explain local and remote applet with example.
 - b) Write a program to display employee data such as eid, ename, contact_no, DOB etc. from employee table. (use type - 4 driver)
 - c) What is XML? Explain attribute and use of XML.
- Q.3 Answer the following questions (Any Two) 14**
- a) What is Cookies? Explain use of 'Cookies' in servlet.
 - b) Explain JDBC architecture in detail.
 - c) Write a program of design an applet that display image in applet.
- Q.4 Answer the following questions (Any Two) 14**
- a) Explain Servlet Life cycle with example.
 - b) Explain JDBC Component.
 - c) Write a demonstration program to use of 'CallableStatement' interface
- Q.5 a) Explain 'RequestDispatcher' interface in detail 07**
- b) Write a program to implements HTTP request POST method in servlet. 07**
- Q.6 a) Explain session tracking mechanism in details. 07**
- b) Explain XML CSS and validation. 07**
- Q.7 Write short note on following (Any Two) 14**
- a) XML tree
 - b) Skeleton of Applet
 - c) JDBC API

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B.C.A. (Semester - V) (Old) (CGPA) Examination March/April-2019
VISUAL PROGRAMMING

Day & Date: Wednesday, 10-04-2019
 Time: 03:30 PM To 06:00 PM

Max. Marks: 70

Instructions: 1) Q.1 and Q.7 are compulsory.
 2) Solve any two questions from Q.2 to Q.4.
 3) Solve any one question from Q.5 and Q.6.

Q.1 Choose the correct alternative and rewrite the sentences.

14

- 1) Exception thrown is handled using _____ block.
 - a) try
 - b) catch
 - c) finally
 - d) exception
- 2) Delegates are useful for _____.
 - a) supports to multithreading
 - b) to bind methods at runtime
 - c) supports to event handling
 - d) All of these
- 3) Structures can inherit other structures or classes.
 - a) True
 - b) False
- 4) Method overriding is possible within same class.
 - a) True
 - b) False
- 5) An interface can contain declaration of _____.
 - a) Methods
 - b) Events
 - c) Indexers
 - d) All of these
- 6) Which of the following service provided by CLR?
 - a) Verification of type safety
 - b) Interoperability
 - c) Garbage collection
 - d) All of these
- 7) A foreground thread cannot be changed to a background thread.
 - a) True
 - b) False
- 8) Which of the following command is used to execute the command but does not return any value?
 - a) ExecuteNonQuery()
 - b) ExecuteReader()
 - c) ExecuteScalar()
 - d) None of these
- 9) _____ is not a WindowState property of a form.
 - a) Maximized
 - b) Minimized
 - c) Active
 - d) Normal
- 10) The default scope for interface members are _____.
 - a) Public
 - b) Protected
 - c) Private
 - d) None of these
- 11) In ArrayList _____ property is used to get the number of elements currently in the list.
 - a) total
 - b) count
 - c) capacity
 - d) list
- 12) Private assembly is installed in the GAC.
 - a) True
 - b) False

- 13) The default value of reference type is null.
a) True
b) False
- 14) The _____ control is used to display data in a drop-down list.
a) ListBox
b) CheckBox
c) ComboBox
d) GroupBox

- Q.2** a) Discuss in detail about thread synchronization. **05**
b) Explain the various access modifiers and their restrictions. **05**
c) Why C# is a type safe language. **04**
- Q.3** a) Write a C# program to illustrate the concept of constructor overloading. **05**
b) Explain the exception handling mechanism of C#. **05**
c) Write note on uses of base keyword. **04**
- Q.4** a) Write a differences between structure and class. **05**
b) Write a program to implement generic class. **05**
c) Give the advantages of multithreading. **04**
- Q.5** a) What is operator overloading? Write a program to overload any two binary operators. **07**
b) What are delegates? Explain its uses with an example. **07**
- Q.6** a) Explain connection-oriented and connection-less data access classes in ADO.Net. **07**
b) What are properties? Explain read-only and write-only properties with example. **07**
- Q.7** **Write short note on. (Any four)** **14**
a) BCL
b) ComboBox and ListBox
c) Custom exception
d) Shared assemblies
e) Advantages of windows services

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**B.C.A. (Semester - V) (Old (CGPA) Examination March/April-2019
LINUX AND SHELL PROGRAMMING**

Day & Date: Thursday, 11-04-2019
Time: 03:30 PM To 06:00 PM

Max. Marks: 70

- Instructions:** 1) Q.1 and Q.7 are compulsory
2) Attempt any two questions from Q.2, 3 and 4
3) Attempt any one question from Q.5 and 6

Q.1 Rewrite the following sentences by choosing the correct alternative 14

- 1) Which is the symbol used for comments in bash shell scripting?
 - a) #
 - b) \$
 - c) *
 - d) \
- 2) Which command is used in LINUX for description of any command?
 - a) Help
 - b) Man
 - c) Detail
 - d) Desc
- 3) Which command is used to extract a column from a text file?
 - a) Get
 - b) Tar
 - c) Extract
 - d) Cut
- 4) If two files on same partition point to the same inode number they are called _____.
 - a) Soft links
 - b) Hard links
 - c) Copy links
 - d) Similar link
- 5) Printer in the file structure can be found in _____ directories
 - a) /etc
 - b) /html
 - c) /proc
 - d) /dev
- 6) Which command is used in vi editor, to copy the current line of the file?
 - a) ys
 - b) yc
 - c) yy
 - d) yw
- 7) Which of the following command is used to see the content of "backup.tar" file without extracting it?
 - a) tar-xvf backup.tar
 - b) tar -svf backup.tar
 - c) tar -tvf backup.tar
 - d) tar -dvf backup.tar
- 8) _____ command is use to show one page of output at a time.
 - a) Less
 - b) Sed
 - c) Pause
 - d) Grep
- 9) Which of the following command is used to copy files across systems?
 - a) SSH
 - b) Telnet
 - c) RSH
 - d) FTP
- 10) The file system information is stored in _____.
 - a) Boot block
 - b) Super Block
 - c) Inode Table
 - d) Data Block
- 11) What is job number?
 - a) same as PID
 - b) a unique number, assigned to each job in shell
 - c) both (a) and (b)
 - d) none of these

- 12) Which can be used to check if the connection to a host is good?
 - a) ping
 - b) netstat
 - c) arp
 - d) route
- 13) Which of the following is the main Apache configuration file?
 - a) /etc/apache.conf
 - b) /etc/httpd/config
 - c) /etc/httpd/conf/httpd.conf
 - d) /etc/srm.conf
- 14) Which of the following commands can be used to mount/mnt/cdrom file system from the /dev/cdrom?
 - a) mount /mnt/cdrom: /dev/
 - b) mount /dev/cdrom/mnt/cdrom
 - c) monunt/dev//mnt/cdrom
 - d) umount/dev/cdrom/mnt/cdrom

- Q.2** a) Explain how to add user in detail. **05**
- b) Explain changing process priority with nice command. **05**
- c) Explain features of Linux. **04**
- Q.3** a) How to run process in background its syntax with suitable example. **05**
- b) How to change permission of a file? Explain. **05**
- c) Explain role of system administrator. **04**
- Q.4** a) Write Shorts on the following: **05**
 - 1) Piping
 - 2) Super-block
- b) Explain listing Command in details. **05**
- c) Explain x window. **04**
- Q.5** a) Write a shell script to concatenate files. **07**
- b) Explain grep Command in details. **07**
- Q.6** a) Write a menu driven shell Script **07**
 - 1) To create symbolic link file BA to MA file
 - 2) To Remove the Execute & Read permission of a bca file
 - 3) Make a directory
 - 4) To rename a directory
 - 5) To append data at end of a bsc file
- b) Explain find Command in details. **07**
- Q.7** **Write short note on following (Any Two)** **14**
 - a) FTP
 - b) LILO & GRUB
 - c) Configuration apache
 - d) NFS

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**B.C.A. (Semester - V) (Old) (CGPA) Examination March/April-2019
INTRODUCTION TO DATA MINING & WAREHOUSING**

Day & Date, Friday, 12-04-2019
Time: 03:30 PM To 06:00 PM

Max. Marks: 70

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Choose the correct alternative and rewrite the sentences.

14

- 1) The time horizon in Data warehouse is usually _____.
a) 1-2 years
b) 3-4 years
c) 5-6 years
d) 5-10 years.
- 2) The data is stored, retrieved & updated in _____.
a) OLAP
b) OLTP
c) SMTP
d) FTP
- 3) The important aspect of the data warehouse environment is that data found within the data warehouse is _____.
a) subject-oriented
b) time-variant
c) integrated
d) All of the above
- 4) The data warehouse is _____.
a) read only
b) write only
c) read write only
d) none
- 5) _____ predicts future trends & behaviors, allowing business managers to make proactive, knowledge-driven decisions.
a) Data warehouse
b) Data mining
c) Data marts
d) Metadata
- 6) _____ is the heart of the warehouse.
a) Data mining database servers
b) Data warehouse database servers
c) Data mart database servers
d) Relational database servers
- 7) _____ databases are owned by particular departments or business groups.
a) Informational
b) Operational
c) Both informational and operational
d) Flat
- 8) The star scheme is composed of _____ fact table.
a) one
b) two
c) three
d) four
- 9) The time horizon in operational environment is _____.
a) 30-60 days
b) 60-90 days
c) 90-120 days
d) 120-150 days
- 10) Record cannot be updated in _____.
a) OLTP
b) files
c) RDBMS
d) data warehouse

- 11) _____ is a good alternative to the star schema.
- a) Star schema
 - b) Snowflake schema
 - c) Fact constellation
 - d) Star- snowflake schema
- 12) Fact tables are _____.
- a) completely demoralized
 - b) partially demoralized
 - c) completely normalized
 - d) partially normalized
- 13) Data can be updated in _____ environment.
- a) data warehouse
 - b) data mining
 - c) operational
 - d) informational
- 14) _____ is the goal of data mining.
- a) To explain some observed event or condition
 - b) To confirm that data exists
 - c) To analyze data for expected relationships
 - d) To create a new data warehouse

Q.2 Attempt the following. 14

- a) What is the need of multidimensional model? Explain MOLAP & ROLAP?
- b) What are the techniques in Data Mining?

Q.3 Attempt the following. 14

- a) Explain the ETL design with suitable example.
- b) Explain the OLAP operations in multidimensional model?

Q.4 Attempt the following. (Any one) 14

- a) Explain star & snowflake schema in detail.
- b) Explain multimedia data mining with its application.

Q.5 Attempt the following. (Any one) 14

- a) Explain different visualization techniques.
- b) What is Data Mining? Explain the mining of spatial databases?

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No.****B.C.A. (Semester – V) (Old) (CGPA) Examination March/April-2019
MANAGEMENT INFORMATION SYSTEM**Day & Date: Monday, 15-04-2019
Time: 03:30 PM To 06:00 PM

Max. Marks: 70

- Instructions:** 1) Q.1 and Q.7 are compulsory.
2) Attempt any two questions from Q.2 to Q.4.
3) Attempt any one question from Q.5 and Q.6.
4) Figures to right indicate full marks.

Q.1 A) Select the correct alternatives.**07**

- 1) Projections and response to queries are information output characteristics associated with _____.
 - a) DSS
 - b) MIS
 - c) ESS
 - d) TPS
- 2) Which of the system uses multidimensional data analysis?
 - a) DSS
 - b) MIS
 - c) ESS
 - d) All of the above
- 3) _____ System keeps a track on the daily regular business transaction of the organization.
 - a) Management Level
 - b) Strategic Level
 - c) Executive Information
 - d) Operational Level.
- 4) Which of the following information category is used by middle management?
 - a) Organizational
 - b) Functional managerial knowledge
 - c) Decision Support
 - d) Operational
- 5) Knowledge based system support _____.
 - a) Knowledge creation
 - b) Knowledge Support
 - c) Knowledge of dissemination
 - d) All of the above
- 6) A combination of a MIS and DSS called _____ Which helps top management make decision?
 - a) GIS
 - b) EIS
 - c) EPI
 - d) CAM
- 7) The raw facts and figures are _____.
 - a) Data
 - b) Information
 - c) Snapshot
 - d) Reports

B) Fill in the blanks.**07**

- 1) BIS stands for.
- 2) Example of MIS in service sector.
- 3) ERP stands for.
- 4) KMS stands for.
- 5) OLAP stands for.
- 6) CRM stands for.
- 7) SMS stands for.

- Q.2 Write a short note (Any Two). 14**
- a) Define decision. Explain decision making life cycle.
 - b) Explain role of manager in an organization.
 - c) Explain advantages and disadvantage of ERP
- Q.3 Write a short note (Any Two). 14**
- a) Explain the CRM.
 - b) Explain benefits the DSS.
 - c) Explain the scope of MIS.
- Q.4 Write a short note (Any Two). 14**
- a) Explain the system vulnerability.
 - b) Write a short note on “Knowledge Management”.
 - c) Explain the advantage and disadvantage of SCM.
- Q.5 Answer the following. 14**
- a) Explain the application of MIS in service industry.
 - b) Explain the needs and importance of information system.
- Q.6 Answer the following. 14**
- a) Explain the characteristics of Computerized MIS.
 - b) Explain features of ESS.
- Q.7 Write a short note (Any Two). 14**
- a) Explain classification of DSS.
 - b) Business Intelligence System.
 - c) Explain the security and control.

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**B.C.A. (Semester - VI) (Old) (CGPA) Examination March/April-2019
ADVANCED JAVA – II**

Day & Date: Tuesday, 16-04-2019
Time: 03:30 PM to 06:00 PM

Max. Marks: 70

- Instruction:** 1) Q.1 and Q.7 are compulsory.
2) Solve any two questions from Q.2, 3 and 4.
3) Solve any one question from question no. 5 and 6.
4) Figures to the right indicate full marks.

Q.1 Rewrite the following sentences by choosing the correct alternative. 07

- 1) The <constructor-bean> subelement of <bean> is used for constructor injection.
 - a) True
 - b) False
- 2) Which of these packages contains Locale class?
 - a) java.lang
 - b) java.io
 - c) java.util
 - d) java.awt
- 3) Syntax for Expression Language is _____.
 - a) \${ expression }
 - b) \$(expression)
 - c) { expression }
 - d) All of these
- 4) The _____ sub element of union-subclass is used to generate the foreign key in the subclass mapped table in HB.
 - a) foreign key
 - b) id
 - c) key
 - d) properties
- 5) The JSP _____ tag is used to display message as well as variables.
 - a) Action
 - b) Directive
 - c) Expression
 - d) Declaration
- 6) Which directive tag is used for JSTL?
 - a) page
 - b) include
 - c) taglib
 - d) jstl
- 7) Which technology is used to create web application just like Servlet technology?
 - a) Internationalization
 - b) JSP
 - c) Applet
 - d) Hibernate
- 8) What are different types of Bean injection in spring?
 - a) constructor
 - b) setter
 - c) setter and getter
 - d) both a) and b)
- 9) Which of the inheritance strategy is used to sub-element <subclass> of element<class>?
 - a) TPH
 - b) TPC
 - c) TPS
 - d) None of these
- 10) Spring is _____ and _____ framework.
 - a) Lightweight and open source
 - b) heavyweight and open source
 - c) Lightweight and Licensed
 - d) Heavyweight and licensed

- 11)WAP is used for _____.
- a) design static pages
 - b) design dynamic pages
 - c) both a) and b)
 - d) none of these
- 12)All Hibernate annotations are defined in _____ package
- a) javax.persistence.*
 - b) javax.hibernate.*
 - c) javax.hibernate.annotation.*
 - d) java.annotation.*
- 13)TLD stands for Tag Library Definition.
- a) True
 - b) False
- 14)JSTL stands for JSP Servlet Tag Library.
- a) True
 - b) False

- Q.2** a) Explain JSP Life cycle with example. **07**
b) Explain the Hibernate Framework architecture. **07**
- Q.3** a) Explain steps to create Spring Application with Example. **07**
b) Explain JSTL SQL Tags. **07**
- Q.4** a) Explain JSP implicit objects. **07**
b) Explain the Architecture of WAP. **07**
- Q.5** a) Explain setter injection with map. **07**
b) Write a Demonstrate program to display current date and time in JSP. **07**
- Q.6** a) Explain ResourceBundle class in internationalization. **07**
b) What is hibernate and explain the advantages of HB? **07**
- Q.7 Write short note on following. (Any Two)** **14**
- a) WAP model
 - b) Inheritance Mapping
 - c) JSP action tags

- Q.1 B) State true or false:** **05**
- 1) Cyber-laws are incorporated for punishing all criminals only.
 - 2) Making copies of the actual work or text or source code is called as patent.
 - 3) A computer worm is a self-replicating program.
 - 4) Cyber security is used to protect your online information.
 - 5) Digital signatures created and verified by cryptography.
- Q.2 Answer any two of the following:** **14**
- a) Which are the various threats to data security?
 - b) Explain scope of E-commerce.
 - c) Explain criminal aspect in cyber law.
- Q.3 Answer any two of the following:** **14**
- a) Explain electronic document.
 - b) Explain cyber security in detail.
 - c) Explain benefits of E-commerce.
- Q.4 Answer any two of the following:** **14**
- a) Which are the various steps in data security?
 - b) Explain data encryption in detail.
 - c) Explain hardware and software security in detail.
- Q.5** **07**
- a) Explain Digital Contract.
 - b) Explain various applications of E-commerce. **07**
- Q.6** **07**
- a) Explain Uncitral model law. **07**
 - b) Explain theft of Information in detail. **07**
- Q.7 Write Shorts notes (any two):** **14**
- a) Security audit
 - b) Duties of subscribers
 - c) Copyrights

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**B.C.A. (Semester - VI) (Old (CGPA) Examination March/April-2019
SOFTWARE PROJECT MANAGEMENT**

Day & Date: Friday, 26-04-2019
Time: 03:30 PM To 06:00 PM

Max. Marks: 70

- Instructions:** 1) Q. 1 and Q.7 are compulsory
2) Attempt any two questions from Q.2, 3 and 4
3) Attempt any one question from Q.5 and 6

Q.1 A) Choose the correct alternatives. 10

- 1) Which of the following is not a part of the Work Breakdown Structure (WBS)?
 - a) Activity
 - b) Time
 - c) Tasks
 - d) Steps
- 2) Stakeholders might be _____.
 - a) Internal to the project team
 - b) External to the project team and organization
 - c) External to the project team but within same organization
 - d) All of these
- 3) The _____ chart is a method of recording and displaying the way in which targets have changed in duration of the project.
 - a) line
 - b) timeline
 - c) PERT
 - d) bar
- 4) In Albrecht function point analysis, _____ file types allow for output and input that may pass to another application.
 - a) logical internal
 - b) external interface
 - c) external inquiry
 - d) external output
- 5) CMM stands for _____.
 - a) Critical maturity models
 - b) Capability maturity model
 - c) Critical maintenance model
 - d) Capability maintenance model
- 6) The difference between total float & free float is called _____.
 - a) Free float
 - b) Interfering float
 - c) Float
 - d) None of these
- 7) _____ emphasize the idea of a system in action.
 - a) Process
 - b) Activity
 - c) Method
 - d) None of these
- 8) A _____ takes depends on assumption & decisions about how the Project is to be carried out.
 - a) PFD
 - b) DFD
 - c) PBS
 - d) None of these
- 9) The _____ Model is useful to guide the risks in the project.
 - a) Prototyping
 - b) Spiral
 - c) SDLC
 - d) Waterfall
- 10) Which of the following objective of project?
 - a) Deliver on schedule
 - b) Meet specified quality
 - c) Stay within budget
 - d) All of these

- B) State whether true or false** **04**
- 1) Groups of methods or techniques are called plans.
 - 2) The technical assessment deals with evaluating the functions of hardware & software.
 - 3) A prototype is a working model of one or more aspects of proposed system.
 - 4) Project may be distinguished by whether their aim is to produce a product & objectives.
- Q.2 Attempt any two of the following.** **14**
- a) Explain stepwise overview of project planning.
 - b) Describe waterfall model with diagram.
 - c) Explain the different techniques for enhancing the quality of software project.
- Q.3 Attempt any two of the following.** **14**
- a) Explain the software effort technique
 - b) Explain the risk planning and control
 - c) Explain the various activities covered by software project management.
- Q.4 Attempt any two of the following.** **14**
- a) Explain the COCOMO model.
 - b) Explain the different types of Resource.
 - c) Explain Stress, health and safety.
- Q.5** **07**
- a) Explain the cost-benefit evaluation techniques
- b) What is activity? Explain the forward & backward pass with example** **07**
- Q.6** **07**
- a) Explain the different types of Risk.
- b) Explain the Dynamic System Development Method (DSDM).** **07**
- Q.7 Write short note on following (Any Two)** **14**
- a) Software prototyping
 - b) Decision making
 - c) S/W Quality

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B.C.A. (Semester - VI) (Old) (CGPA) Examination March/April-2019
WEB TECHNOLOGY – III

Day & Date: Wednesday, 24-04-2019
Time: 03:30 PM To 06:00 PM

Max. Marks: 70

- Instructions:** 1) Q. 1 and Q.7 are compulsory.
2) Solve any two questions from Q. 2, 3 and 4.
3) Solve any one question from Q.5 and 6.

- Q.1 Rewrite the following sentences by choosing the correct alternative: 14**
- 1) The first event executed in any Asp.Net(.aspx) page is _____.
 - a) Page_PreInit()
 - b) Page_Load()
 - c) Page_Start()
 - d) Page_Render()
 - 2) The _____ is top configuration file which contains ASP.NET settings for all of the applications on the server.
 - a) Webconfig.config
 - b) Application.Config
 - c) Machine.Config
 - d) System.Config
 - 3) The _____ directives's in Asp.Net having Duration attribute which determines how long the page is cached.
 - a) @duration
 - b) @cache
 - c) @outputcache
 - d) @outcache
 - 4) In Asp.Net website; Global.asax is used _____.
 - a) To store styling information
 - b) To implement application & Session level events
 - c) To store the application configuration
 - d) To store configuration information
 - 5) _____ of the following is not client side compound in AJAX Architecture.
 - a) Networking
 - b) Core Services
 - c) Script Support
 - d) Browser Compatibility
 - 6) The main part in ASP.NET personalization service is the _____.
 - a) User Profile
 - b) Web Services
 - c) User Provider
 - d) None of these
 - 7) Silverlight application is uses _____ for UI development.
 - a) XML
 - b) XMAL
 - c) XAML
 - d) XSLT
 - 8) Default value for ParentLevelDisplay property of SiteMapPath control is ____
 - a) -1
 - b) 0
 - c) 1
 - d) n
 - 9) User defined validations will be validate using _____ validator control.
 - a) User
 - b) Custom
 - c) ValidationSummary
 - d) Required
 - 10) _____ property or TextBox is used to change single- line or Multiline Textbox.
 - a) Text
 - b) Wrap
 - c) ChangeTextBox
 - d) TextMode

- 11) _____ property of BulletedList control can be used to displayed ListItem as LinkButton form.
- a) DisplayMode
 - b) DisplayLinkButton
 - c) LinkButtonDisplay
 - d) HyperlinkDisplay
- 12) _____ is not possible value of ShowCheckBoxes property in TreeView control.
- a) Leaf
 - b) Root
 - c) Node
 - d) None
- 13) <asp:ContentPlaceHolder> control must be available in Master Page.
- a) True
 - b) False
- 14) WSDL is nothing but _____.
- a) Web Services Data Language
 - b) Web Services Database Language
 - c) Web Services Description Language
 - d) Web Services Data Loading

- Q.2 Answer the following: 14**
- a) What is Web Service? Explain different parts in web services in detail.
 - b) What is use of wizard control? Explain with example (at least 5 steps).
- Q.3 Answer the following: 14**
- a) What is Authentication and authorization? Explain different types of authentication technique used in Asp.Net.
 - b) Design web page which demonstrate site navigation techniques.
- Q.4 Answer the following: 14**
- a) Explain event ordering in Master Pages.
 - b) Explain UpdatePanel, UpdateProgress, scriptmanager and timer control with example.
- Q.5 Answer the following: 14**
- a) What are Page directives? Explain at least seven directives in detail.
 - b) What is server side state management? Explain application and session state management in Asp.Net.
- Q.6 Answer the following: 14**
- a) What are different lists used in Asp.Net? Explain with example how to add item in list using Array and database technique.
 - b) Explain Web part control group with example.
- Q.7 Write short note on: 14**
- a) Silverlight **04**
 - b) Self Page Posting & Cross Page Posting **04**
 - c) Nested Master pages **04**
 - d) Assemblies **02**