

Seat No. : _____

AD-129

April-2025

BCA., Sem.-VI

SEC-302 (C) : Advanced JAVA

Time : 2:30 Hours]

[Max. Marks : 70

1. Give the following answers :

- (i) Explain Any Four methods of Buffered Reader class with example. 7
- (ii) What is stream ? Explain types of Stream class in detail. 7

OR

- 1. (i) Explain File Writer class with example. 7
- (ii) Explain Random Access File with example. 7

2. Give the following answers :

- (i) List the various types of Layout Manager .Explain Flow Layout with example. 7
- (ii) What is Swing ? Explain JLabel class with example in detail. 7

OR

- 2. (i) Explain JButton class with example. 7
- (ii) Explain Grid Layout in detail with example. 7

3. Give the following answers :

- (i) What is Event ? Explain ActionListener with example. 7
- (ii) Explain Java Datagram Packet class in detail. 7

OR

- 3. (i) What is Socket Programming ? Explain any two methods with example. 7
- (ii) Explain Event Delegation Model in Detail. 7

4. Give the following answers :

- (i) Explain JDBC Architecture and Component of JDBC in detail. 7
- (ii) Difference between JDBC vs ODBC. 7

OR

- 4. (i) Explain Driver Manager Class in detail. 7
- (ii) Explain types of JDBC Driver in detail. 7

5. MCQs : (Attempt any 7 out of 12)

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- (1) Which of these is used to perform all input & output operations in Java ?
(a) Streams (b) Variables
(c) Classes (d) Methods
- (2) Which of these class is used to read characters and strings in Java from console ?
(a) BufferedReader (b) StringReader
(c) BufferedStreamReader (d) InputStreamReader
- (3) Which method is used to check the status of checkbox ?
(a) getStatus() (b) getState()
(c) isChecked() (d) getChecked()
- (4) Which of these method of DatagramPacket class is used to find the destination address ?
(a) findAddress() (b) getAddress()
(c) address() (d) whols()
- (5) In swing, Buttons are subclasses of which class ?
(a) Button (b) JButton
(c) AbstractButton (d) JRadioButton
- (6) _____ is a swing class that allows to enter a single line of text.
(a) TextField (b) JTextField
(c) EditTextField (d) TextArea
- (7) Which event is generated when the position of scrollbar is changed ?
(a) EventObject (b) EventClass
(c) ActionEvent (d) ItemEvent
- (8) The _____ is an object that is notified when an event occurs.
(a) Listener (b) Sources
(c) Event (d) None of the above
- (9) Which is main component of JDBC API ?
(a) DriverManager (b) Driver
(c) Connection (d) All of these
- (10) Which method is used to retrieve the ResultSet created ?
(a) getResultSetResult() (b) getResultSet()
(c) executeQuery() (d) getResult()
- (11) Name the class which is used to create a port where the server will listen.
(a) Server (b) Socket
(c) ServerSocket (d) SocketServer
- (12) Which of the following component generates ActionEvent ?
(a) Window (b) RadioButton
(c) ScrollBar (d) None

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April-2025

BCA., Sem.-VI

SEC-302 : Cloud Computing

Time : 2:30 Hours]

[Max. Marks : 70

1. Answer the following questions :

- (A) Explain cloud computing reference model. 7
- (B) Explain following historical development in cloud computing. 7
- (1) Service-oriented computing
- (2) Web 2.0

OR

- (A) Define cloud. Explain characteristics of cloud computing. 7
- (B) Explain different cloud computing platforms. 7

2. Answer the following questions :

- (A) Explain SOA. Explain web services. 7
- (B) Explain Data centered architecture and call & return architecture from software architectural styles. 7

OR

- (A) Explain system architectural style for distributed computing. 7
- (B) What is parallel processing ? Explain Hardware architectures for parallel computing. 7

3. Answer the following questions :

- (A) What is Virtualization ? Explain characteristics of virtualized environment. 7
- (B) Explain hardware-level virtualization with its techniques. 7

OR

- (A) Explain advantages and disadvantages of virtualization. 7
- (B) Explain programming language-level virtualization and Desktop virtualization. 7

4. Answer the following questions :

- (A) Explain software as service. 7
- (B) Explain types of clouds. 7

OR

- (A) Explain infrastructure as service. 7
- (B) Explain platform as a service. 7

5. Attempt the following : (Any seven)

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- (1) Which one of the following options can be considered as the Cloud ?
 - (a) Hadoop
 - (b) Intranet
 - (c) Web Applications
 - (d) All of above
 - (2) Applications and services that run on a distributed network using virtualized resources is known as _____.
 - (3) Which of the following architectural standards is working with cloud computing industry ?
 - (a) Service-oriented architecture
 - (b) Web-application frameworks
 - (c) Standardized Web services
 - (d) None
 - (4) In Para virtualization, VMs do not simulate the underlying hardware. (T/F)
 - (5) Which of the following is the most essential element in cloud computing by CSA ?
 - (a) Identity Management
 - (b) Access Management
 - (c) Virtualization
 - (d) Multi-tenancy
 - (6) Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service. (T/F)
 - (7) The machine on which the virtual machine is created is known as
 - (a) Guest machine
 - (b) Host machine
 - (c) Visitor machine
 - (d) None
 - (8) Private cloud doesn't employ the same level of virtualization. (T/F)
 - (9) Write full form of QOS.
 - (10) Identify among the components which are known as a hypervisor :
 - (a) VMC
 - (b) VC
 - (c) VMM
 - (d) All of Above
 - (11) In Data parallelism, how are tasks typically divided among processing units ?
 - (a) Sequentially
 - (b) Independently
 - (c) With delays
 - (d) Randomly
 - (12) Cloud computing relies on a decentralized model, where all processing and storage are done on the client devices. (T/F)
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