Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2023

Course	:	MSCIT	**Date**	:	10/07/2023
Subject Code	:	MSCIT -301	**Time**	:	03:45pm to 06:00pm
Subject Name	:	Web development Tools	**Duration**	:	02.15 Hours
			Max. Marks	:	70

Section A

Answer the following (Attempt any three) **(30)**

1. Explain Switch-Case statement in C# in details. 48
2. Define inheritance and explain various types of inheritance. 87
3. How to define class in C#? explain with example. 26
4. Describe thread states during its lifetime and its management. 141
5. Write a short note on Exception handling in C#. 77

Section B

Answer the following (Attempt any four) **(20)**

1. Differentiate between class and structure. 111
2. Discuss property and GET – SET accessors. 62
3. Explain StreamReader class with its important properties and methods. 165
4. Write a short note on components of .net architecture. 3
5. What do you mean by operator overloading ? List and explain rules for overloading an operator in C#. 121
6. Define delegates. Explain types of delegates in details. 69

Section C
Part – A (Multiple Choice Questions) (10)

1   _____ is the special types of comments which is used to create a documentation of code by using XML elements in a program.
   A   //   B   /*……... */
   C   ///   D   <!----- …… ---!>

2   _____ compilation done at application deployment time.
   A   Normal-JIT   B   Pre-JIT
   C   Econo-JIT   D   All of them

3   _____statement is used to transfer the program control directly to a labelled statement.
   A   Break   B   Return
   C   Continue   D   Goto

4   _____ method Suspend the current thread for given time period in milliseconds.
   A   Sleep()   B   Wait()
   C   Join()   D   Abort()

5   In Switch statement the value of a case must be _____.
   A   Literal   B   Constant
   C   A or B   D   Variable

6   In_____ inheritance one class can be derived by more than one class.
   A   Multiple   B   Hybrid
   C   Hierarchical   D   Multilevel

7   Interface does not contain data members like _____.

	A	Fields		B	Variables
	C	Constructor		D	All of them

8 _____ property of FileInfo class used to get file extension.

A	SetExtension		B	GetExtension
C	Extension		D	LetExtension

9 In exception handling _____ statement is used to manually raise an exception.

A	Try		B	Catch
C	Throw		D	Finally

10 Full form of MSIL is _____

A	Microsoft Intermediate Language		B	Microsoft Interpreted Language
C	Microsoft Indirect Language		D	Microsoft International Language

Part – B (Do as Directed)   (10)

1 The Main method is always static, means this method can be called without any object. True / False
2 Delegate in C# is like as pointer to functions in C/C++. True / False
3 A set property accessor is used to return the property value. True / False
4 The code which is executed by managed runtime execution environment like CLR is known as Managed code. True /False
5 Suspend() method terminate the thread. True / False
6 StreamWriter class used to write to the text file or another stream. True / False
7 You cannot make instance of interface. True / False
8 In .Net every class is by default inherited by System.Object class. True / False
9 Generic class can be capable to handle any type. True / False
10 C# compiler by default apply private access modifier to members of the class. True / False

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Course	:	MSCIT	**Date**	:	11/07/2023
Subject Code	:	MSCIT 302	**Time**	:	03:45pm to 06:00pm
Subject Name	:	Mobile Application	**Duration**	:	2.15 Hours
		Development	**Max. Marks**	:	70

Section A

Answer the following (Attempt any three)   **(30)**

1. Explain the Android Architecture. 11
2. Describe the Basic Android API Packages. 65
3. Explain with example how can we specify device compatibility in Android Manifest 74
   file
4. Explain Service Life Cycle. 102
5. Explain the use of TextView, EditText, Button, Checkbox, Spinner, Radio Button. 148

Section B

Answer the following (Attempt any four)   **(20)**

1. Explain Code Editing Practices while creating the Android Apps. 43
2. Explain the Types of Module. 63
3. What is Activity? Explain Life Cycle of an Activity. 86
4. Write detailed note on permissions. 122
5. What is Resource? Explain Resource Directory Hierarchy. 138
6. Explain two ways of creating layouts with its advantages and disadvantages. 171

Section C
Part – A (Multiple Choice Questions)   **(10)**

1 How may AVDs you will be able to be create in Android Studio?
   - A One
   - B Two
   - C Three
   - D As many as you want

2 During _____ phase you build your project into a debuggable .apk package(s) that
   you can install and run on the emulator or an Android-powered device.
   - A Environment Setup
   - B Development
   - C Building
   - D Publishing

3 An AVD consist of
   - A Hardware Profile
   - B A mapping to a System Image
   - C Dedicated Storage Area
   - D All of these

4 In _____ layout, Child views are drawn in a stack, with the most recently
   added child on top.
   - A Linear
   - B Frame
   - C Relative
   - D Table

5 _____ contains a vertically scrolling, horizontally filled list of View objects,
   each of which typically contains a row of data; the user can choose an item to
   perform some action upon.
   - A ListView
   - B GridView
   - C GalleryView
   - D All of these

6 Which of the following is a data driven control?
   - A ListView
   - B GridView
   - C GalleryView
   - D All of these

7   _____Contains a grid of View objects, with a specific number of columns
   A   ListView   B   GridView
   C   GalleryView   D   All of these

8   _____ View contains a horizontally scrolling list of View objects, also often used with image icons.
   A   ListView   B   GridView
   C   GalleryView   D   All of these

9   SEND_SMS is _____ type of permission
(A) (B) (C) (D)
   A   Normal   B   Signature
   C   Dangerous   D   All of these

10   SET_WALLPAPER is _____ type of permission
(A) Normal (B) Signature (C) Dangerous (D) All of these
   A   Normal   B   Signature
   C   Dangerous   D   All of these

Part – B (Do as Directed)   (10)

1   Android is complete, free and open source (True/False)
2   Android is a Java ME implementation (True/False)
3   Downloading Android Studio is free of cost (True /False)
4   We can install Android Studio without installing Java (True/False)
5   If the Android launcher script does not find where Java is installed, you need to set an environment variable indicating the correct location of Java. (True/False)
6   Property Window allows setting different properties of selected component. (True/False)
7   We can customize the code editor for font, displaying quick help when mouse moves over code. (True/False)
8   What is short cut key for running an application?
9   The Package Name is used to uniquely identify the application within the Android application ecosystem (True/False)
10   Tasks that do not require user interaction can be encapsulated in a _____.

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Course	:	MSCIT		**Date**	:	12/07/2023
Subject Code	:	MSCIT-303		**Time**	:	03:45pm to 06:00pm
Subject Name	:	Object Oriented Technology		**Duration**	:	2.15 Hours
				Max. Marks	:	70

Section A
Answer the following (Attempt any three)   **(30)**

1. List out and explain various components of Swing with Hierarchy of Swing API. 71
2. List out and explain types of JDBC Driver in detail. 100
3. Discuss Socket and ServerSocket Classes with example. 120
4. Discuss RMI Architecture in detail. 127
5. Discuss Servlet Life cycle in detail. 149

Section B
Answer the following (Attempt any four)   **(20)**

1. Write difference between AWT and Swing. 4
2. Describe the JDBC Architecture in detail. 83
3. Write difference between GenericServlet and HttpServlet. 155
4. Explain Servlet Management in Servlet with example.
5. Define JSP Directives in brief. P.N 207 207
6. List out and explain JSP Implicit Objects in brief. 216

Section C
Part – A (Multiple Choice Questions)   **(10)**

1 In Java swing, which of the following components is/are represented by a rectangular area in which a component may be viewed?

   A Scroll pane   B Tabbed pane
   C Combo boxes   D None of these

2 What is not true for a Java bean?

   A There are no public instance variables.   B All persistent values are accessed using getxxx and setxxx methods.
   C It may have many constructors as necessary.   D All of these are true of a Java bean.

3 What is invoked via HTTP on the Web server computer when it responds to requests from a user's Web browser?

   A A Java application   B A Java applet
   C A Java servlet   D None of these

4 To create swing components, which of the following is imported?

   A javax.awt.*   B java.awt.*
   C javax.swing.*   D java.swing.*

5   Swing elements are preceded by the letter

   A S   B A
   C X   D J

6 What are the major components of the JDBC?
   A DriverManager, Driver, Connection,   B DriverManager, Driver, Connection,
      Statement, and ResultSet   and Statement
   C DriverManager, Statement, and   D DriverManager, Connection,
      ResultSet   Statement, and ResultSet
7 Parameterized queries can be executed by?
   A ParameterizedStatement   B PreparedStatement
   C CallableStatement and   D All of these
      Parameterized Statement
8 The doGet() method in the example extracts values of the parameter's type and number
   by using _____ in servlet.
   A responce.getAttribute()   B request.setParameter()
   C responce.getParameter()   D request.getParameter()
9 Which method is used to send the same request and response objects to another servlet
   in RequestDispacher ?
   A forward()   B sendRedirect()
   C Both A & B   D None of these
10 Which tag is used to execute java source code in JSP?
   A Declaration Tag   B Scriptlet tag
   C Expression tag   D None of these

Part – B (Do as Directed) (10)

1 Java Socket programming is used for communication between the applications running
   on _____ JRE. (different, same)
2 An SQLException can occur _____. (in driver, in database, both in driver and
   database)
3 JTree is a Swing component with which we can display hierarchical data. (True/False)
4 In RMI Architecture which layer Intercepts method calls made by the client/redirects
   these calls to a remote RMI service?
5 What is importance of RMI?
6 Why is init() method is used in Servlets?
7 What is a Cookie?
8 JSP page can not process HTML FORM data. (True/False)
9 Page and flush attributes are used in <jsp:include /> tag. (True/False)
10 There are ____ JSP Implicit objects.

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Course	:	**MSCIT**	**Date**	: **13/07/2023**
Subject Code	:	**MSCIT 304**	**Time**	: **03:45pm to 06:00pm**
Subject Name	:	**Cyber Security**	**Duration**	: **2.15 Hours**
			Max. Marks	: **70**

Section A

Answer the following (Attempt any three) (30)

1. What is Cyber Security? Explain Security Concepts. 3
2. Write short note on Cyber Kill Chain. 44
3. What is Firewall? Explain Types of Firewall. 72
4. Explain Password Cracking And Brute-Force Tools. 144
5. Explain the Importance, Area and Advantages of Cyber Law. 211

Section B

Answer the following (Attempt any four) (20)

1. Explain the Attacks. 20
2. Describe the Cyber security Policy Framework. 55
3. Write short note on Intrusion Detection System (IDS). 79
4. Explain Scanning For Web Vulnerabilities Tools. 113
5. Write short note on Web Attack. 158
6. Explain Digital Forensic. 192

Section C
Part – A (Multiple Choice Questions) (10)

1 What is Cyber Security?
 A   Cyber Security provides security against malware
 B   Cyber Security provides security against cyber-terrorists
 C   Cyber Security protects a system from cyber attacks
 D   All of the mentioned

2 Which of the following is a type of cyber security?
 A   Cloud Security
 B   Network Security
 C   Application Security
 D   All of the above

3 Which of the following is not a cybercrime?
 A   AES
 B   Malware
 C   Man in the Middle
 D   Denial of Service

4 Which of the following is a type of cyber-attack?
 A   Phishing
 B   SQL Injections
 C   Password Attack
 D   All of the above

5 "Cyberspace" was coined by _____
 A   Richard Stallman
 B   William Gibson
 C   Andrew Tannenbaum
 D   Scott Fahlman

6 Which of the following actions compromise cyber security?
 A   Vulnerability
 B   Attack
 C   Threat
 D   Exploit

7 Which of the following is / are the types of firewall?
 A   Packet Filtering Firewall
 B   Dual Homed Gateway Firewall

C   Screen Host Firewall   D   Dual Host Firewall

8   What is the full form of ITA-2000?
    A   Information Tech Act -2000   B   Indian Technology Act -2000
    C   International Technology Act -   D ✓ Information Technology Act -2000
       2000

9   Attempting to gain access to a network using an employee's credentials is called the
    _____ mode of ethical hacking.
    A   Social engineering   B ✓ Local networking
    C   Physical entry   D   Remote networking

10   What is the purpose of a Denial of Service attack?
    A   Exploit a weakness in the TCP/IP B   To execute a Trojan on a system
       stack
    C   To overload a system so it is no D ✓ To shutdown services by turning
       longer operational   them off

Part – B (Do as Directed)   (10)

1   What do we call if we combine Retina Scan with PIN?
2   Describe at least two uses of the HASH Algorithms.
3   Which type of malicious software captures the user data and history? Spyware
4   List of network scanning tools for passive reconnaissance.
5   Which framework is responsible for security healthcare data of patients? The Health Insurance Portability and Accountability Act (HIPAA)
6   Full Forms: SEM Security event management (SEM)
7   Full Forms: SELinux Security-Enhanced Linux (SELinux)
8   W3AF stands for _____ Web Application Attack and Audit Framework
9   What is JtR? John the Ripper (JtR)
10   Full Forms: SIEM Security information and event management (SIEM)

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2> Data compression and authentication of data.

4> Shodan, Wireshark, Google, FindSubDomains.com, VirusTotal, Nmap.