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

Course	: MSCIT	**Date**	:	14/02/2023
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 Components of the .NET Architecture in detail. 3
2. Explain MS .net runtime in detail. 4
3. Explain Metadata and Modules in detail. 15
4. Explain garbage collection in detail. 17
5. Explain introduction to c# .net language in detail. 21

Section B

Answer the following (Attempt any four) (20)

1. Explain declaring the main () method with example. 29 28
2. Explain C# Data Types in detail. 36
3. Explain Value Types-Primitive Data Types in detail. 37
4. Explain Delegates in C#: Single Cast Delegates,Multicast Delegates in detail. 69
5. Explain Stream Classes – FileStream,StreamReader, StreamWriter in detail. 126 156
6. Explain Managed / Unmanaged Code in detail. 6

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

1 What is the full form ASP?
   - A   Access Server Pages
   - B   Active Server Pages
   - C   Active Service Pages
   - D   Access Service Pages

2 ASP.NET is a ____.
   - A   Client- side technology
   - B   Both
   - C   Server- side technology
   - D   None

3 Which of the following programming language can be used with ASP.NET?
   - A   C#.NET
   - B   Both
   - C   VB.NET
   - D   None

4 What is the extension of the ASP.NET page?
   - A   .asp
   - B   asx
   - C   .aspx
   - D   .apx

5 Which of the following technologies are also used with ASP.NET?
   - A   CSS
   - B   AJAX
   - C   JavaScript
   - D   All

6   MVC stands for _____.
    A   Model Vocal Controller   B   Model View Controller
    C   Model View Count   D   Mode View Controller

7   What namespace is used for ASP.NET Web Form by default_____
    A   System.Web.Form   B   System.Web.GUI.Page
    C   System.Web.UI.Page   D   System.Web.UI.Form

8   Which of the following attribute must be set on a validator control for the validation?
    A   ControlToValidate   B   ValidateToBind
    C   ValidateControl   D   ValidateBind

9   Which file contains the Application_Start event?
    A   Global.asax   B   Local.asax
    C   Web.config   D   None

10 Which of the following is not an ASP.NET event?
    A   Init   B   Load
    C   Import   D   All

Part – B (Do as Directed)   (10)

1   What is Metadata?
2   What is C#?
3   Explain in detail the Main() method of C#.
4   What is Boxing?
5   List out the looping statements.
6   What is System.Object ?
7   List out types of inheritance.
8   What is interface?
9   What is   try/catch Block ?
10 What is use of throw statement ?

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Course	:	MSCIT	**Date**	: 15/02/2023
Subject Code	:	MSCIT-302	**Time**	: 03:45pm to 06:00pm
Subject Name	:	Mobile Application Development	**Duration**	: 02:15 Hours
			Max. Marks	: 70

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

1. Write a short note on Activity Life Cycle. 86
2. Discuss the Manifest file in Android. 70
3. List and explain various built-in layouts of Android. 175
4. Define resource and explain resource in Android application in details. 138
5. Explain Android architecture. 11

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

1. Discuss all permission protection level. 129
2. Explain in short about EditText control in Android. 153
3. Enlist features of Android Studio. 33
4. Describe canvas and paint in Android. 192
5. Which are primary or mandatory attributes of Intent ? 110
6. Write a short note on various types of modules offered by Android Studio. 63

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

1 You can use _____ key to fix errors for the most probable solution.
   A   Ctrl + Enter   B   Shift + Enter
   C   Alt + Enter   D   Alt + Space

2 Task that do not require user interaction can be encapsulated in a _____.
   A   Service   B   Intent
   C   Activity   D   Context

3 Permission to set the time zone is an example of _____ type of permission.
   A   Signature   B   Normal
   C   Dangerous   D   Special

4 _____ provides a quick way to select one value from a set of values.
   A   EditText   B   Picker
   C   Spinner   D   TextView

5 The _____ view enables you to specify where the child view controls are in relation to each other.
   A   RelativeLayout   B   TableLayout
   C   LinearLayout   D   FrameLayout

6   The _____ attribute is an optional attribute which is used to control the alignment of the text.
 A textAlign   B setAlign
 C Alignment   D Gravity

7   You can get the context by invoking _____ method.
 A getApplicationContext() B getContext()
 C getBaseContext()   D All of them

8   _____ View contains a horizontally scrolling list of View objects, also often used with image icons;
 A Grid   B Gallery
 C List   D All of them

9   _____ in project structure option of file menu, Sets the version for Gradle and the Android plugin for Gradle, and the repository location name.
 A Project   B Module
 C Developer services   D SDK location

10   To run android application we need to _____
 A Press Shift+F10   B Press Run App button in taskbar.
 C Both A and B   D Press Ctrl + F10

Part – B (Do as Directed)   (10)

1   The foundation of the Android platform is the Linux kernel. True / False

2   We need to select an older SDK release to ensure that the finished application will be able to run on the widest possible range of Android devices. True / False

3   Intent is a messaging object which can be used to request an action from another app component. True / False

4   Transparency is controlled using Alpha transformations. True / False

5   Radio buttons allow the user to select multiple option from a set. True / False

6   An activity provides the window in which the app draws its UI. True / False

7   A CursorAdapter binds one or more columns of data to one or more View objects within the layout resource provided. True / False

8   Frame-by-frame animation is best used for complicated graphics transformations that are not easily implemented programmatically. True / FAlse

9   Resources are compiled and accessed using the R.java class file, which is automatically generated when the application resources are compiled. True / False

10   EditText is a user interface element that only displays text to the user. True / False

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Course	: MSCIT	**Date**	: 16/02/2023
Subject Code	: MSCIT-303	**Time**	: 03:45pm to 06:00pm
Subject Name	: Object Oriented Technology	**Duration**	: 02:15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)
1. Explain JTextField with its methods and example. 25
2. Explain JDBC statements with example. 105
3. Explain Socket class with methods and example. 120
4. Discuss JSP page directives in detail. 208
5. Write a code to select the record from the database through a servlet. 194

Section B

Answer the following (Attempt any four) (20)
1. Write down the difference between AWT and Swing. 4
2. Discuss various event listener interfaces in detail. 49
3. Explain type JDBC driver with advantages and disadvantages. 100
4. Discuss RMI architecture in detail. 127
5. What is servlet? Write down advantages of servlet over CGI. 141
6. Explain life cycle of servlet. 149

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

1. The swing related classes are contained in _____.
   A   javax.swing   B   javax.awt
   C   Javax.Swing   D   None of above
2. Which method executes only ones?
   A   start()   B   init()
   C   paint()   D   stop()
3. Which method can set or change the text in a Label?
   A   setText()   B   getText()
   C   Both A and B   D   None of above
4. Which are the classes are used for connection-oriented socket programming?
   A   Socket and ServerSocket   B   DatagramSocket and DatagramPacket
   C   None of the above   D   All of the above
5. What is javax.servlet.Servlet ?
   A   Interface   B   Concreate class
   C   Abstract Class   D   None of the above

6   Which of the following method is used to perform DML statements in JDBC?

    A   executeResult()   B   executeQuery()

    C   executeUpdate()   D   execute()

7   Which of the following is not a valid statement in JDBC?

    A   Statement   B   PreparedStatement

    C   CallableStatement   D   QueryStatement

8   JDBC-ODBC driver is also known as?

    A   Type 4   B   Type 2

    C   Type 1   D   Type 3

9   _____ is used in JSP implicit object.

    A   Out   B   request

    C   Response   D   All of the above

10   _____ is not the JSTL tag.

    A   <c:out>   B   <c:in>

    C   <c:set>   D   <c:catch>

Part – B (Do as Directed)   (10)

1   Full form of AWT.
2   JTextField directly extends class _____.
3   Full form of MVC.
4   JApplet can contain Menus (True/False)
5   _____ method attaches a JMenuBar to a JFrame.
6   Full form of JDBC.
7   Define try block.
8   Full form of RMI.
9   List out scripting elements.
10   TCP stands for _____.

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Course	: M.Sc.(IT)	**Date**	: 17/02/2023
Subject Code	: MSCIT-304	**Time**	: 03:45pm to 06:00pm
Subject Name	: Cyber Security	**Duration**	: 02:15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain Security Concepts in detail. ✗6
2. List out the different types of Cyber-attacks and explain any three of them. ✗ 170
3. Write a short note on Types of Firewall 72
4. Discuss about Email Attacks 165
5. Explain types of network security. 203

Section B

Answer the following (Attempt any four) (20)

1. Discuss Symmetric Encryption in brief 10
2. Explain IPTABLE Commands. ✗ 92
3. List different types of Wireless Network Attacks and explain any one. 103
4. What is SQLMAP explain its features. 133
5. Write a short note on cyber law. 212
6. Explain Intellectual Property in detail. 237

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

1. Which one of the following can be considered as the class of computer threats?
   - A DoS Attack
   - B Phishing
   - C Soliciting
   - D Both A and C

2. Which one of the following is a type of antivirus program?
   - A Quick Heal
   - B McAfee
   - C Kaspersky
   - D All of the above

3. Which of the following is designed to perform legitimate tasks but it also performs unknown and unwanted activity?
   - A Viruses
   - B Worms
   - C Trojan horses
   - D Semantic attack

4. A worm does not need another file or program to copy itself; it is a self-sustaining running program.
   - A True
   - B False
   - C Can be true or false
   - D Can not say

5. Which of the below is a kind of cyber security?
   - A Cloud Security
   - B Application Security
   - C Network Security
   - D All of the above

6   SQL injection is an attack in which _____ code is inserted into strings that are later passed to an instance of SQL Server.
    A   Malicious   B   Redundant
    C   Clean   D   Non malicious

7   Which is not a Nikto command-line option
    A   -config+   B   -display+
    C   -format+   D   -write+

8   Full form of ZAP is _____
    A   Zed Action Proxy   B   Zed Attack Protocol
    C   Zed Attack Proxy   D   Zed Action Protocol

9   Which of the following is not a part of Digital Forensic?
    A   Malware Forensic   B   Email Forensic
    C   Memory Forensic   D   None of the Given

10 Full form of NAC
    A   Network Addition Control   B   Network Access Control
    C   New Access Control   D   New Addition Control

Part – B (Do as Directed)   (10)

1   What is Ransomware?
2   Give Full Form: APT Advanced Persistent Threat
3   Explain what is F2T2EA
4   Full Form: HIPAA Health Insurance Portability and Accountability Act
5   What is IDS? IDS stands for intrusion detection system
6   MANET stands for _____ MANET stands for Mobile Adhoc Network
7   W3AF stands for _____ Web Application Attack and Audit Framework
8   DVWA stands for _____ Damn Vulnerable Web Application
9   What is hacking?
10 Define: cyber stalking

1> Ransomware is a type of malware that holds a victim's data or device hostage, threatening to keep it locked—or worse—unless the victim pays a ransom to the attacker.

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3> F2T2EA is an acronym for the military's kill chain, which stands for Find, Fix, Track, Target, and Engage. It's used in cyber security to describe the process of attacking a target

9> Hacking, also known as cyber hacking, is the act of gaining unauthorized access to a computer system, device, or network.

10> Cyberstalking is when a cybercriminal uses email, direct messaging, or other electronic means to harass, scare, or threaten someone with physical harm.