Enrollment No: 2471

SILVER OAK UNIVERSITY
EDUCATION TO INNOVATION

Silver Oak College of Computer Application
Constituent Institutes of Silver Oak University

Semester:	**4th (Fourth)**	**Department:**	**BCA / B.Sc. (CS-IT)**

Mid Semester Examination (Summer 2024)

Subject Code:	**2040233242**	**Subject Name:**	**Android**
Date:	**05-April-2024**	**Time:**	**12:30 PM to 02:00 PM**
Duration	**90 Minutes**	**Total Marks:**	**50**

Instructions:

- Compulsory to attempt all the questions.

Q.1	(A)	Objective type questions: (1) OHA stands for_____. (2) SDK stands for_____. (3) DVM stands for_____.	(3)
	(B)	What is Android?	(3)
	(C)	Explain Intent?	(3)
Q.2	(A)	Objective type questions: (1) ADB stands for_____. (2) DDMS stands for_____. (3) AVD stands for_____.	(3)
	(B)	What is Drawable?	(3)
	(C)	Explain Features of Emulator?	(3)
Q.3	(A)	Explain SDK and its Components?	(5)
	(B)	Explain Checkbox & Toggle and also give the suitable example	(5)

OR

Q.3	(A)	Differentiate between Frame layout and Table layout?	(5)
	(B)	Explain Android Activity Lifecycle and draw its life cycle diagram?	(5)
Q.4	(A)	Write down the steps of the Create the AVD at proper manner?	(5)
	(B)	Write down the steps of the Configuration for new Project?	(5)

OR

Q.4	(A)	Explain AndroidManifest.xmlfile and write down its main elements?	(5)
	(B)	Explain resource value types in android?	(5)
Q.5	(A)	Explain Android Fragment Lifecycle and draw its life cycle diagram?	(6)
	(B)	Explain Architecture of Android OS in detail?	(6)

OR

Q.5	(A)	Make a Calculator Android App using Android Studio using multiple buttons?	(6)
	(B)	Explain History of Android OS in Detail?	(6)

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Semester:	IV	Department:	BSc.(CS/IT) / BCA
Mid Semester Examination (Summer 2024)			
Subject Code:	2040233211	Subject Name:	Programming in python
Date:	06/04/2024	Time:	12.30 to 02:00 PM
Duration	90 Minutes	Total Marks:	50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1(a)	List 5 major features of python and their benefits.	05
Q.1(b)	Explain implicit and explicit type conversion.	04
Q.2(a)	Write a program to print first 10 natural numbers using for loop.	05
Q.2(b)	Difference between list and tuple.	04
Q3(a)	Write applications of python.	05
Q.3(b)	What are functions? Explain its types.	05

OR

Q.3(a)	Explain inheritance in python and its role in code reuse	05
Q.3(b)	Write a python function to calculate the Factorial of a given number.	05
Q.4(a)	Explain the concept of lambda function in python provide an example.	05
Q.4(b)	Write any five functions that can be used in python list	05

OR

Q.4(a)	Explain Keyword and Identifiers in python.	05
Q.4(b)	Write a python program to find whether a number is prime or not.	05
Q.5(a)	Create a python program that takes list of numbers as input and returns the sum of even numbers and product of odd numbers.	07
Q.5(b)	Explain the concept of string slicing in python with example.	05

OR

Q.5(a)	What is the purpose of "with" statement in python. How does its simplify file handling?	07
Q.5(b)	Demonstrate the use of for loop in python by displaying the multiplication table of 7.	05

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Semester:	IV	Department:	BCA / B.SC(CS-IT)
Mid Semester Examination (Summer 2024)			
Subject Code:	2040233210	Subject Name:	Core Java
Date:	04-04-2024	Time:	12:30 PM to 2:00 PM
Duration	90 Minutes	Total Marks:	50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Define JVM,JDK and Byte Code.	03
	(b)	Explain various types of operators in Java with examples.	03
	(c)	Write a java program to find the factorial of the number.	03
Q.2	(a)	Explain key features of Java	05
	(b)	Differentiate between Java and C++.	04
Q3	(a)	What is Array? Write a java program to find maximum number inarray.	05
	(b)	What is Constructor? Explain different types of constructors withexample.	05
		OR	
Q.3	(a)	Describe the methods of the Arrays class in Java (fill(), sort(), equal(), binary search). Provide examples of each.	05
	(b)	Explain different Stages of Thread Life Cycle in detail.	05
Q.4	(a)	List out the types of Inheritance. Explain each with syntax.	05
	(b)	What is the purpose of the Final and Super keyword in Java? How isit use explain with example?	05
		OR	
Q.4	(a)	What is Abstract Class? Give difference between Abstract class andInterface.	05
	(b)	What is Method Overloading & Method Overriding? Provide an example demonstrating in Java.	05
Q.5	(a)	What is a package in Java? Explain the process of creating Custompackage in Java. Provide an example.	06
	(b)	What is the difference between String & String Buffer. Explain String Buffer and String Builder with example.	06
		OR	
Q.5	(a)	What is Multithreading? Explain the Thread class in Java. How to create a thread with extends Thread and implements Runnable method?	06
	(b)	What is an abstract class in Java? How is it different from a regular class? Provide an example of an abstract class.	06

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Semester:	IV	Department:	BCA(4Thsem)
Mid Semester Examination (Summer 2024)			
Subject Code:	2040233212	Subject Name:	Computer Network
Date:	08-04-24	Time:	12:30PM-2:00PM
Duration	90 Minutes	Total Marks:	50

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	a)	Define a computer network and elaborate on its significance in modern computing.	04
	b)	Describe any two Network Topologies with a diagram. Explain their advantages and disadvantages.	05
Q.2	a)	Define digital to digital line encoding schemes.Explain unipolar and bipolar encoding techniques with diagrams.	04
	b)	What is the difference between switch and router?	05
Q3	a)	Compare and contrast analog and digital signal.	05
	b)	Explain the difference between LAN, MAN, PAN and WAN networks with examples.	05
		OR	
Q.3	a)	What is parallel and serial transmission methods in computer networks?	05
	b)	Explain the function of each layer in OSI Model with descriptive diagram .	05
Q.4	a)	In which layer hub is working? Explain its functionality with diagram.	05
	b)	What is multiplexing? Explain its types FDM and TDM with diagram.	05
		OR	
Q.4	a)	Explain Circuit Switching with its advantages and disadvantages.	05
	b)	Describe Datagram approach for packet switching techniques.	05
Q.5	a)	What is the difference between TCP/IP and OSI model?	06
	b)	What is transmission media in computer network? Give classification of it. Draw and explain the diagram of fiber optic cable.	06
		OR	
Q.5	a)	Describe Pulse Code Modulation techniques with diagram.	06
	b)	What is Error? Explain different types of Error. Explain any one error detection technique with example.	06