Bachelor in Computer Applications
Course Title: Mobile Programming
Code No: CACS351
Semester: VI

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

2. What do you mean by mobile device? List and explain any four popular for programming language used for developing mobile application.

3. What is event? How many ways to handle event in android programming? [1+4]

4. Explain android architecture briefly with suitable diagram.[5]

5. Why fragment needed in android application? How fragment can be added to an activity?[2+3

6.What are different types of UI controls used in IOS programming? Write a swift program to find sum of all elements of 1-D array

7. How ListView is differ from RecyclerView? Explain with example.[5]

8. How do you find view element in your program? Which dialog boxes can you use in your

…android application?

Group C

Attempt any TWO questions.

9. Provided that SQLITE database named "College" with table named Student with following ..columns (**Roll as Integer, Name as Text and Address as Text).** Develop an android application to connect

10. Develop an android application to calculate simple interest using customize dialog box.

11. Develop an android application to input your Name, Age, gender and other personal …information. Pass and display this information in another activity. [10]

Bachelor in Computer Applications
Course Title: Distributed System
Code No: CACS352
Semester: VI
Candidates are required to answer the questions in their own words as far as possible.
Group B

Attempt any SIX questions.

2. What is RPC? Explain the RPC process in brief.

3. Explain different characteristics of Distributed System.

4. Why clock synchronization is needed in Distributed system? Explain the Network Time
Protocol in brief. [1+4]

5. Explain structured naming scheme of an entity in brief

6. Explain different types of distributed system.

7. How process resilience is achieved through groups?

8 Write short on (Any Two):
   a) Bully Algorithm
   b) Berkeley Socket
   c) Denial of Service

Group C

Attempt any TWO questions.
9 What is virtualization? Explain different types of virtualization. Explain the role of middleware

in distributed system. [2+4+4]

10. What are different architecture styles of distributed system? Explain each of them in
detail.[2+8]

11. What is the role of coordinator in distributed system? Explain different approaches of
….electing a coordinator.[2+8]

Tribhuvan University
Faculty of Humanities & Social Sciences
OFFICE OF THE DEAN
2020

Bachelor in Computer Applications
Course Title: Advanced Java Programming
Code No: CACS354
Semester: VI

Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

2. Why do we need top level container like JFrame to write Java programs with GUI? How can ….we display two dimensional objects in Java?

3. Explain JTextField and TextArea components of Java swing library.

4. How do you execute SQL statements using JDBC Explain with example

5. Compare result set with row set. Explain prepared statement with example.

6. How do you set and get Cookie in Servlet? Explain using suitable Java progam.

7. Explain different scripting elements of JSP with example

8 Write short notes on (Any Two)

   a) Java web frameworks
   b) CORBA
   c) Bean bound property

Group C

Attempt any TWO questions.

9. Write a GUI application to find sum and difference of two integer numbers. Use two text ...fields for input and third text field for output. Your program should display sum if the user ..presses the mouse and difference if the user releases the mouse. [10]

10. What is bean design pattern? Explain simple, Boolean, and indexed property design patterns with suitable examples in detail.[2+8]

11. Define RMI. What is stub and parameter marshalling? Write a client/server application using ….RMI to find product of two numbers.[1+2+7]

Bachelor in Computer Applications
Course Title: Network Programming
Code No: CACS354
Semester: VI
Candidates are required to answer the questions in their own words as far as possible.

Group B

Attempt any SIX questions.

2. Define Client Server software model. Explain the feature of Java as a Network programming Language [1+4]

3. What is the use of Network interface Class? Explain the basic features of NetworkInterface class.

4. Explain HTTP methods with example [1+4]

5. Write a program to display the socket information address, port, local address, local port).

6. Write a server side program for daytime service using socket.

7. Define Non-blocking I/O. Different between blocking and non-blocking socket communication in Java.

8. Write Short Notes on (Any Two):
   a) Secure Communication
   b) Multicast Sockets
   c) RMI Server

Group c

Attempt any TWO questions.

9. What is the procedure for constructing and connecting Server sockets? Explain the Server ….Socket options with example.[5+5]

10. Write a program to perform a basic two-way communication between client and server. [10]

11. What are features of Datagram Packet and Datagram socket Class? Write a program to create Simple UDP client [3+3+6]

Bachelor in Computer Applications
Course Title: Applied Economic
Code No CAECISS
Semester: VI

Candidates are required to answer the questions in their own words as far as practicable.

Group B

Attempt any SIX questions

2. Distinguish the concepts of microeconomics and macroeconomics
3. What is demand? Explain its determinants
4.
   a. A consumer buys 80 units of a goods at price of Rs.4 per unit. When the price falls, he buys 100 units. If the price elasticity of demands -1 , find out the new price of the goods.

   b. Price elasticity of supply of good 5. A producer sells 500 units of this good at Rs.5 per Unit. How much will sell at the price of Rs 6 per uint? .
5. Price effect is the combination of income and substitution effect Describe.
6. Explain the relationships between AT and MR.
7. How price and output are determined under perfect competition market in the long-run?
8. Explain the primary and secondary functions of money.

Group C

Attempt any TWO questions.

9. Explain the properties of the Indifference Curve. [10]

10. Based on the table given below, answer the questions:

Quality of Output	0	1	2	3	4	5
Total Variable Cost	0	20	30	48	90	170
Total Cost	30	50	60	78	120	200

a) Plet the TFC, TVC and the TC curves.
b) Explain the reason for the shape of short-run total cost curves.
c) Calculate the average fixed cost (AFC), the average variable cost (AVC), the average total cost (ATC), and the marginal cost (MC)

11. Consider The following data to calculate the following.

S.No	Particulars	Rs(In crores)
1.	Exports of Goods and Services	3542
2.	Imports of Goods and Services	3632
3.	Private Final Consumption Expenditure	58326
4.	Net Factor Income from Abroad (NFIA)	(-)568
5.	Subsidies	674
6.	Capital Consumption Allowances(Depreciation)	4434
7.	Compensation of Employees	26726
8.	Government's Final consumption Expenditure	7602
9	Indirect Taxes	7728
10	Gross Fixed Capital Formation	12610
11	Mixed Income of the self-employee	32224
12	Interest,Rent and Profit (Operating Surplus)	10088
13	Change in Stocks	2078

a) GDP_{MP} by income method and by expenditure method.
b) GDP_{FC} and GNP_{MP}
c) NNP_{FC} and NNP_{MP}