

2111000103010002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
301 - STATISTICAL METHODS

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject : **301 - STATISTICAL METHODS**
 - c. Subject Code No : **2111000103010002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Mention your options clearly
6. Use of calculator is permitted.

Seat No:

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Student's Signature

Q.1 Do as directed: (Any seven)

14

1. Define term bivariate data.
2. Calculate mean of the following observations: 7, 4, 9, 2, 9, 4, 6
3. Explain independent and dependent variable.
4. If $n = 10$, $\sum x = 60$, $\sum x^2 = 1000$, then find standard deviation.
5. A regression equation given by $9x + 5y = 16$, if $y = 6$ then find x .
6. Find the variance for the following data. 6, 5, 4, 8, 5, 8
7. What is Geometric mean?
8. The perfect negative correlation is signified by _____.
9. Find the standard deviation for the following data series.
5, 10, 7, 12, 0, 20, 14, 22, 8, 2

10. If $r = 0.25$, $b_{yx} = 1.25$ then $b_{xy} = ?$

Q.2 Attempt any two

14

A) The following data represents income distribution of 100 families; calculate mean income of 100 families.

Income in '00 Rs	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of families	8	12	25	22	16	11	6

B) The table below shows the data about weights of 86 apples from a garden. Find the mode for the weight of apples:

Weights of apples (gram)	120-130	130-140	140-150	150-160	160-170	170-180	180-190
No. of apples	8	13	19	23	10	8	5

C) For the following frequency distribution, find the median and Q3.

Volume of item (in cubic cm)	Less than 15	15-20	20-25	25-30	30-35	35-40
No. of item	2	8	20	35	20	15

Q.3 Attempt any Two

14

A) Which of the following factories is more stable with respect to daily production?

	Factory A	Factory B
Average daily production (units)	50	48
Standard deviation (units)	10	12

B) The information of marks obtained by 220 students of a college is given below. Find the quartile deviation of the marks obtained by the students.

Marks	0-9	10-19	20-29	30-39	40-49	50 or more
No. of students	30	50	64	42	29	5

C) The information of number of flowers on 100 plants of a nursery is given below. Find the quartile deviation of the number of flowers from it.

No. of flowers	11	13	15	17	19	21	23	25
No. of plants	5	8	13	20	22	18	10	4

Q.4 Attempt any Two

14

A) The following information is collected by taking a sample of 7 candidates having nearly same intellectual ability to know the effects of 'last day perception' for a competitive exam of general knowledge on the 'result of the exam.'

Reading hours of last 3 days	25	38	30	28	34	40	36
Marks obtained in exam	65	75	68	70	72	79	75

B) Find Karl Pearson's coefficient of correlation from the following data. Assume 60 and 65 as working men.

X	45	70	65	30	90	40	50	75	85	60
Y	35	90	70	40	95	40	60	80	80	50

C) The coefficients of rank correlation of the marks obtained by 10 students in two particular subjects are found to be 0.5. It was later discovered that the difference in ranks in two subjects obtained by one student was wrongly taken as 3 instead of 7, what should be the correct value of coefficient of rank correlation?

A) In order to study the relationship between the repairing time of accident damage car and the cost of repair, the following information is collected.

Repairing time of car	32	40	25	29	35	43
Repairing cost	25	35	18	22	28	46

Obtain regression line of y on x.

B) By using the following data, find out the two line of regression and from them, compute the Karl Pearson's coefficient of correlation.

$$\sum x = 250, \sum y = 300, \sum xy = 7900, \sum x^2 = 6500, \sum y^2 = 10000, n = 10$$

C) Write regression equation of x on y and y on x for the following data

X	45	48	50	55	65	70	75	72	80	85
Y	25	30	35	30	40	50	45	55	60	65

2111000103030002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
303-DATABASE HANDLING USING PYTHON

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject : **303-DATABASE HANDLING USING PYTHON**
 - c. Subject Code No : **2111000103030002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer in brief (any 7)

14

1. What is the use of NEW and OLD attribute in trigger?
2. What is the use of CASE statement in SELECT Query?
3. Which keyword indicates the interpreter to locate the module files imported into a program?
4. What is the purpose of fetchall()?
5. What is the difference between text and binary file?
6. What is sub-query? Give one example of it?
7. What is the difference between write and append mode?

8. Differentiate Union and UnionAll.
9. Explain the element of the plot in python.
10. How can multiple SQLite command be executed at a time in python?

Q.2 (a) Explain various data transaction and the statements used to handle transactions. **7**

OR

(a) Explain the .mode command with suitable example.

(b) What is the use of file pointer? State the position of file while opening the file. Which functions are used for accessing the file randomly **5**

OR

(b) Which methods are used to handle CSV files? Explain with proper example.

(c) What is the difference between read and readline? **2**

Q.3 (a) Explain various modes of opening the file. Perform reading operation on emp.csv file with fields empid, ename, designation, salary **7**

OR

(a) Explain date functions in SQLite.

(b) Explain steps using python code to create copy of a text file. **5**

OR

(b) What is a package? Explain with proper example working with packages in Python.

(c) What is the use of OLD and NEW keyword in trigger? 2

Q.4 (a) Explain the row and column slicing of dataframe in python. 7

OR

(a) Explain Plotting with matplotlib in python. Also explain different types of Plotting and their significance

(b) Consider the two lists $x = [5,8,10,56,9,11]$, $y = [23,14,55,12,16,6]$ and do as directed: 5

a. Generate a line plot for x and y having green and red colour with different line size.

b. Generate scatter plot by labeling individual parts of the graph.

c. Generate bar graph with horizontal and vertical bars.

OR

(b) Explain working with multiple charts at a time in Python.

(c) What are the advantages of using module in python? 2

Q.5 Write short note. (Any Two): 14

1. Functions used to handle cursor.

2. Dot commands of SQLite.

3. Exception handling in python.

4. Types of Namespaces.

2111000103040002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATION
(THIRD SEMESTER)
OBJECT ORIENTED PROGRAMMING &
DATA STRUCTURES

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (THIRD SEMESTER)**
 - b. Name of the Subject : **OBJECT ORIENTED PROGRAMMING & DATA STRUCTURES**
 - c. Subject Code No : **2111000103040002**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer Following: (Any Seven)

14

1. What is abstract class? What is use of it?
2. Write a difference between Simple Queue and Circular Queue.
3. What is abstraction?
4. What is TOP pointer in stack?
5. What is the purpose of abstract class?
6. What is Constructor with default argument?
7. Difference between private and protected specifies.
8. What is object? Give one example of it.
9. Convert infix to postfix:- $Z + (Y * X - (W / V \wedge U) * T) * S$

Q.2 Do as Directed. (Any Two)

14

(A) What is Inheritance? List out the types of Inheritance. Explain Multilevel inheritance with an example.

(B) How runtime polymorphism is achieved in C++? Explain with example.

(C) Differentiate between unary and binary operator overloading.

Q.3 Do as Directed. (Any Two)

14

(A) Write a program to overload >> and << operators.

(B) What is Object Oriented Programming? Write the difference between OOP and POP.

(C) What is constructor? Explain parameterized constructor with an example.

Q.4 Do as Directed. (Any Two)

14

(A) What is stack? Write algorithms of various stack operations.

(B) Write an algorithm to convert infix expression in to postfix.

(C) Discuss difference between FIFO and LIFO programming. Write down algorithm how to delete an element from simple queue.

(A) Write an algorithm to perform insert and delete operations on circular queue.

(B) Design two classes to support following type conversions: Rupee R; Dollar D; $D = R$; Converts Rupee to dollar Write a program to carry out this conversion.

(C) Write a short note on Double ended queue.

2111000103050002
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
WEB DESIGNING - I

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject : **WEB DESIGNING - I**
 - c. Subject Code No : **2111000103050002**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.
 5. Illustrate your answer with necessary example, if required.

Seat No:

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Student's Signature

Q.1 Chose the correct answers for following questions. (1 mark for each MCQ) 14

1. What is full form of HTML?
A) Hyper Text Markup Language B) Hyper Type Markup Language
C) Both A and B D) none of these
2. From below which is type of CSS in which particular tag is modified?
A) inline css B) external css
C) internal css D) reference css
3. Which company created Bootstrap?
A) Microsoft B) Facebook
C) Twitter D) none of above
4. What is use of indexOf() function?
A) it is use to extract part of string B) it is use to give length of string
C) it is use to get index of string D) none of above

5. What is the correct HTML for referring to an external style sheet?
- A) <stylesheet>mystyle.css</stylesheet>
 - B) <style src="mystyle.css"
 - C) <link rel="stylesheet" type="text/css" href="mystyle.css">
 - D) none of all
6. What is the correct JavaScript syntax to change the content of the HTML element below?
- ```
<p id="demo"> This is a demonstration. </p>
```
- A) document.getElementById("p").innerHTML= "Hello";
  - B) #demo.innerHTML = "Hello!";
  - C) document.getElement("p").innerHTML= "Hello!";
  - D) document.getElementById("demo").innerHTML= "Hello!";
7. Which attribute of video tag is used for store video's path?
- A) src
  - B) autoplay
  - C) height
  - D) none of all
8. From below which is not javascript feature?
- A) Object oriented language
  - B) Client side scripting
  - C) Server side scripting
  - D) Event handling
9. From below which is use for client side data validation?
- A) JavaScript
  - B) CSS
  - C) html
  - D) none of above
10. What is output of below javascript code:
- ```
var s="I like bca college";  
document.write(s.substr(3,4));
```
- A) bca
 - B) like
 - C) college
 - D) none of above
11. How do you square root of 4 using javascript math function?
- A) Math.sqrt(4)
 - B) rnd(4)
 - C) round(4)
 - D) Math.round(4.25)
12. Which class provides a responsive fixed width container?
- A) .container-fixed
 - B) .container-fluid
 - C) .container
 - D) .contain

13. The Bootstrap grid system is based on how many columns?

- A) 6
- B) 3
- C) 9
- D) 12

14. In JavaScript which message box is use to get input from user?

- A) Alert
- B) Confirm
- C) Prompt
- D) All of the above

- Q.2** A. What is CSS? Explain external and internal css with example. 7
B. Explain table class of bootstrap. 7

OR

- A. Explain DOM methods in JavaScript. 7
B. Explain bootstrap grid system. 7

- Q.3** A. Explain Events in Javascript. 7
B. Explain JavaScript string function with example. 7

OR

- A. Explain Form controls in Bootstrap. 7
B. Explain operators in Javascript. 7

- Q.4** A. Explain Dialog box in JavaScript. 7
B. Explain DOM in javascript. 7

OR

- A. Explain Date object with its methods in javaScript. 7
B. Explain Table class in Bootstrap with example. 7

- Q.5** A. Write a JavaScript code to find out number of vowels into string from textbox. 7
B. Write a JavaScript code to count vowels from string which given by textbox. 7

OR

- A. Write a JavaScript code to do mobile number validation. 7
(mobile number is 10 digits only)
- B. Write a javascript code to do compulsory field validation. 7
(if we left a field we get error : mandatory filed)

2111000103050003
EXAMINATION MARCH 2025
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
MOBILE APPLICATION DEVELOPMENT - I

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject : **MOBILE APPLICATION DEVELOPMENT - I**
 - c. Subject Code No : **2111000103050003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.
5. Mention your options clearly.

Seat No:

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Student's Signature

Q.1 Answer the following questions in short: (ANY SEVEN)

14

1. What is Fixed and Wireless Mobile communication?
2. Write steps to create new Android project in Android Studio.
3. What is AVD?
4. What is use of colors.xml file?
5. List out the uses of XML.
6. Define Modulation and Multiplexing.
7. List out the common values of screen Orientation attribute?
8. Define Broadcast Receiver.

Q.2 Answer the following. (ANY TWO)

14

[A] Explain concept of Android with it features.

[B] Explain Android Activity Life cycle with diagram.

[C] Explain Checkbox with its attributes and methods.

Q.3 Answer the following (ANY TWO) 14

[A] Explain XML declaration and its rules in detail.

[B] Explain various components of Android Application.

[C] Explain Android Architecture in detail.

Q.4 Answer the following (ANY TWO) 14

[A] Explain Button Widget with suitable example.

[B] Discuss Dalvik Virtual Machine in detail.

[C] What is layout? List out the types of Layout and explain Linear Layout in detail.

Q.5 Answer the following (ANY TWO) 14

[A] Explain Characteristics of XML.

[B] Explain Bluetooth technology in detail.

[C] What is Toast class and how to display a message using Toast? Explain it with example.

2411000903011002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-1-DATABASE HANDLING USING PYTHON(PR)
(PRACTICAL -303)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject: **MAJOR-1-DATABASE HANDLING USING PYTHON(PR) (PRACTICAL -303)**
 - c. Subject Code No: **2411000903011002-A**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Write a python script to create database "Bank.db" and perform following task.

20

- A. Create table Customer(c_id, name, act_type, balance).
- B. Insert 10 records.
- C. Read data into Data Frame.
- D. Display customer id and balance whose name starts with 'A'.
- E. Display last 3 records.

Q.2 Viva

5

2411000903011002-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-1-DATABASE HANDLING USING PYTHON(PR)
(PRACTICAL -303)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-1-DATABASE HANDLING USING PYTHON(PR) (PRACTICAL -303)**
 - c. Subject Code No : **2411000903011002-B**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Create "Inventory" table in SQLite3 with appropriate constraints. 20

Inventory (item_id, item_name, category, qty, unit_price)

Perform below operations.

- A. Insert 10 records with appropriate category.
- B. Export table data to csv file & Load CSV file In python.
- C. Find Total Inventory Value.

Q.2 Viva 5

2411000903022002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA
STRUCTURES(PR) (PRACTICAL -304)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES (PR) (PRACTICAL -304)**
 - c. Subject Code No : **2411000903022002-A**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 [a] Write a program to accept employee number, employee name & basic salary. **20**

Calculate H.R.A., D.A., P.F., Gross Salary, net salary & display all.

HRA = 10% basic,

DA = 15% basic,

PF = 15% basic,

Gross salary = Basic + HRA + DA, Net salary = Gross salary - PF

[b] Viva

5

2411000903022002-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA
STRUCTURES (PR) (PRACTICAL -304)

[Time: As Per Schedule]

[Max. Marks:25]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES(PR) (PRACTICAL -304)**
 - c. Subject Code No : **2411000903022002-B**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Create a class publish which have members like publisher id and publisher name. Create one another class book with members like author name, book name, and price which is inherited from class publish. Write a program to display information of both the classes. **20**

Q.2 Viva **5**

2411000903033002-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-3-WEB DESIGNING - I(PR) 305-1 (PRACTICAL -305-1)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-3-WEB DESIGNING - I(PR) 305-1 (PRACTICAL -305-1)**
 - c. Subject Code No : **2411000903033002-A**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 (A) Create responsive **Password Validation Form** using HTML and Bootstrap. Use JavaScript to do the following validations. **15**

Password must contain:

- (a) Capital Letter(s) and Lower case letter(s)
- (b) Digit(s)
- (c) Length is minimum 8 characters

(B) Password and Confirm Password must be same **5**

Q.2 Viva-voce + Journal **5**

2411000903033002-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-3-WEB DESIGNING - I(PR) 305-1 (PRACTICAL -305-1)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-3-WEB DESIGNING - I(PR) 305-1 (PRACTICAL -305-1)**
 - c. Subject Code No : **2411000903033002-B**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Create **Responsive (use bootstrap)** Sign Up form / Registration page that includes at least following fields: **20**

Full Name, User Name, Password, Confirm Password, Address (Use Textarea), Gender (Use Radio button), Mobile Number, Email Id, City, State (Use Dropdown), Submit and Reset buttons.

Use JavaScript to validate following:

- (1) User name (Must not be blank)
- (2) Password and confirm password must be same.
- (3) Mobile number (must be 10 digits)

Q.2 Viva-voce + Journal **05**

2411000903033004-A
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I
(PR) 305-2 (PRACTICAL -305-2)2

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
 - b. Name of the Subject : **MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I (PR) 305-2 (PRACTICAL -305-2)**
 - c. Subject Code No : **2411000903033004-A**
2. Sketch neat and labelled diagram wherever necessary.
 3. Figures to the right indicate full marks of the question.
 4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Create a Mobile Application in Android to hide title bar and open in Full Screen Size and change the orientation of the screen on button click. **20**

Q.2 VIVA + JOURNAL **5**

2411000903033004-B
EXAMINATION APRIL - 2025
BACHELOR OF COMPUTER APPLICATION (PRACTICAL)
(NEP) (THIRD SEMESTER)
MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I
(PR) 305-2 (PRACTICAL -305-2)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATION (PRACTICAL) (NEP) (THIRD SEMESTER)**
- b. Name of the Subject : **MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I (PR) 305-2 (PRACTICAL -305-2)**
- c. Subject Code No : **2411000903033004-B**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Create an android app interface to make Order in Coffee Shop. **20**

Include Following Modules in app:

Home Screen: It Contain List of item of Coffee Shop

Payment Screen: Click on Button which moves to Payment Screen from where take input of Card No, CSV No, Card Holder Name and Pin .Display Toast message of Successful On "Payment" Button Click.

Q.2 VIVA + JOURNAL **5**
