**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BC5131** | Roll No. | Total Printed Pages: 2 |
| **3BC5131** |  |
| BCA III Year V-Semester (Main/Back) End Semester Examination, November 2022  **(Mobile)** | |
| **BCM05101: Professional Android Application Development** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | How we can perform gesture detection and also write a program to identify single tab and double tab event detection and print Toast for the same and also write a code to detect the X,Y coordinate when user touch a screen and find offset when user move a finger on the screen | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | Create an application that will create Fragment and show text message in an fragment | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Write a code to change the language from English to Hindi and Hindi to English on button click event. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Create an application that show the list of student and use array list concept to create an student list | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** |  | Write a short note on the following:  (i) View port (ii) Page Navigation (iii) Web Services | **(12)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** |  | Create an application in which two Edit Text and a button will be visible. When the button is clicked, the text inputted in Edit Text 1 should be retrieved and displayed in Toast and also showcase the use of intent when we want to send this edit text data to next page | **(12)** | **Create** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Create an Application in which a Button Should be displayed with text “ShowNotification” and when a user Click on the Button a Notification Will be generated with Welcome Title and also show cancel option on Notification. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Create an application that show the Toast when the network connection get lost and also show message when network resumes | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | What do you mean by Background Task and Explain how we can perform Background Task in Application without affecting the UI? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Create a SMS application in which user need to give message to the mobile number that is enter by user in edit box. | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | How to load maps, finding map API key in android. Write down the steps involved in this environment. | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | Write a short note on:  (i) Location API (ii) Location Manager | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | What is the purpose of shared preference and how we can save login details with the help of shared preference? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | How an app can Integrate with native Android capabilities  (i) Camera (ii) Audio (iii) Video | **(6)** | **Analyse** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | What is the role of apk and how we can use this for testing purpose | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Write a short note on:  (i)Application Security (ii) play store permissions | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | How can you publish an app in goggle play store | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by monetize your application? | **(6)** | **Understand** |