**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3130** | Roll No. | Total Printed Pages: 2 |
| **2BC3130** |  |
| BCA II Year III-Semester (Main/Back) End Semester Examination, November 2022  **(Mobile)** | |
| **BCMCCA3104: Introduction to 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)** | Describe the meaning of Activity in android. What are different type of layout in android. What is the role of res folder in android? Also explain how we can set value in string folder and get the value for any view from string.xml? | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | Explain the necessity of manifest file in android application development? What are the components of android application and Differentiate between implicit and explicit intent and also explain the role of intent filter | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | Explain folder plain the project structure of application and list are the required folder needed to create an application | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | Differentiate between Linear layout and relative layout with suitable example | **(6)** | **Analyse** |
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|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | How to build a simple Calculator app with four basic (+,-,\*,/) operation using Android Studio? | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | What do you mean by array adapter and how we can use this with list view? | **(6)** | **Analyse** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | How we can pass data from one Activity to another Activity and showcase the concept with proper example. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Explain the MVP pattern with diagram | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** |  | Create an application that will show the current Time with the help of Bound Services and also write a code to register this service in Manifest | **(12)** | **Create** |
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|  |  | **OR** |  |  |
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| **Q.6** |  | Create a Notification using the Notification Builder. Use Pending Intents to respond to Notification actions and also perform cancel of existing Notifications. | **(12)** | **Create** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | How Content Provider help in application ‘development. | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | Write a short note on:  (i) Android File system (ii) Firebase | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | What is the role of shared preference and how it will provide help to check login status? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | How you relate “Data Access and storage ” concept in android system , | **(6)** | **Analyse** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | What is the role of testing in android and how we can perform testing in android application? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Write a short note on:  (i) Activity testing (ii)Service testing | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Write down the steps to publish an app in goggle play store | **(6)** | **Analyse** |
|  |  |  |  |  |
|  | **(b)** | What do you understand by Debugging using DDMS? | **(6)** | **Understand** |