

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, APRIL – 2022**

SMART DEVICE PROGRAMMING

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

I. (Answer **all** questions in one or two sentences. Each question carries **2** marks)

1. List any two IDEs for developing Android applications.
2. Define activity in Android.
3. Write the use of bundle.
4. Define View. Give two examples.
5. Write the use of PhoneGap. (5 x 2 = 10)

PART-B

II. (Answer **any five** of the following questions. Each question carries **6** marks)

1. List any four mobile technologies and explain any two of them.
2. Write a short note on Android SDK.
3. Describe Intent. Explain two types of Intents.
4. Write a short note on content providers and various types.
5. Write the method/ function and its arguments to send SMS using Android.
6. Write the uses of any six event attributes in HTML5.
7. Explain the procedure to insert JavaScript code in a webpage using an example. (5 x 6 = 30)

PART-C

(Answer **one** full question from each Unit. Each full question carries **15** marks)

UNIT – I

- III. (a) Write the steps or procedure to install Android Studio. (9)
(b) Compare the features of Apple iOS and Android operating systems. (6)

OR

- IV. (a) Write the steps or procedure to create Android Virtual Device. (9)
(b) Describe the features of Android Studio. (6)

UNIT – II

- V. (a) With a neat diagram explain the life cycle of an Android Activity. (9)
(b) Describe linking activities using intents with example. (6)

OR

- VI. (a) Describe various Android Components. (8)
(b) Explain with example how to pass data between activities using intents. (7)

UNIT- III

- VII. (a) Explain about any four types of Android Layouts. (8)
(b) Describe Android menu and various types of menu. (7)

OR

- VIII. (a) Explain about database creation and data insertion operations in SQLite. (8)
(b) List and write the uses of any five Android basic UI components. (7)

UNIT - IV

- IX. (a) Explain any four advantages of PhoneGap. (8)
(b) Describe any seven HTML 5 Layout tags for mobile applications. (7)

OR

- X. (a) Explain the creation of external CSS style sheet with an example. (8)
(b) List and explain any five HTML 5 semantic tags for mobile applications. (7)
