

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/  
COMMERCIAL PRACTICE – APRIL -2021.

**SMART DEVICE PROGRAMMING**

(Maximum Marks: 75)

[Time: 2.15 hours]

**PART–A**

Marks

**I.** Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. State the use of mipmap folder in an android project.
2. Define intent in android.
3. Write the xml code to display an image 'img.png' using Image View.
4. Name the permissions need to be declared in AndroidManifest.xml file when writing files to external storage.
5. List two event attributes in HTML5. (3x2=6)

**PART - B**

**II** Answer **any four** of the following questions. Each question carries 6 marks.

1. Explain the steps to install Android Studio.
2. List features of Android Studio for professional software Development.
3. Explain how a string can be passed between Android activities using intent.
4. Explain how SMS service is provided in Android.
5. Write the android code to display the days in a week using List View.
6. Explain various multimedia tags in HTML5.
7. Explain how JavaScript is added to a web page.

[4x6 =24]

**PART - C**

(Answer **any of the three units** from the following. Each full question carries 15 marks)

**UNIT I**

**III** Explain the architecture of Android OS with neat diagram. (15)

**OR**

- IV** (a) Compare Android OS and iOS. (9)  
(b) Explain features of 2G and 3G technologies. (6)

**UNIT- II**

- V** Explain life cycle of an Android activity with neat diagram. (15)

**OR**

- VI** (a) Explain how to return results from Android activity using intent. (9)  
(b) Explain different types of services in android. (6)

**UNIT- III**

- VII** Explain various layouts in Android UI. (15)

**OR**

- VIII** (a) Explain how SQLite database is used for data storage in Android application. (9)  
(b) Explain how to store data to internal memory using file streams. (6)

**UNIT – IV**

- IX** Explain different ways to add styles to a web page. (15)

**OR**

- X** (a) Explain various layout tags in HTML5. (9)  
(b) Explain advantages of PhoneGap technology. (6)

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