DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, NOVEMBER – 2024

SMART DEVICE PROGRAMMING

[Maximum Marks : 100]   [Time : 3 hours]

PART – A
(Maximum Marks : 10)

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

1. List any two mobile operating systems.

2. What is the purpose of the Android Software Development Kit (SDK)?

3. What is the use of Android manifest file?

4. State the difference between EditText and TextView.

5. Write the HTML5 code to play an audio file.   (5x2=10)

PART – B
(Maximum Marks : 30)

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

1. What are the characteristics of the Android operating system?

2. List features of Android Studio.

3. Explain the various hardware configurations available for setting up an Android Virtual Device.

4. Write the XML code to create a login screen with fields for username and password in Android.

5. Explain the basic components in Android.

6. Explain the inline and internal styles in CSS.

7. List the advantages of PhoneGap.

(5x6=30)

PART – C

(Maximum Marks : 60)

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

UNIT – I

III.   (a)   Write the steps to install and configure Android Studio in Windows.   (8)

       (b)   Discuss about Apple iOS.   (7)

OR

IV.   (a)   Describe about Eclipse IDE for android application development.   (8)

       (b)   List and explain any three mobile technologies.   (7)

UNIT – II

V.   (a)   Differentiate implicit and explicit Intent with example.   (8)

       (b)   Write short notes on broadcast receivers.   (7)

OR

VI.   (a)   Explain data passing between activities using intent with an example.   (8)

       (b)   Explain the life cycle of activity in Android.   (7)

UNIT –III

VII.   (a)   How to create context menu with example in android application.   (8)

       (b)   Write short notes on RadioGroup and RadioButton.   (7)

OR

VIII.   (a)   Explain any two UI layouts in android.   (8)

       (b)   Write the steps to publish Android application in Google play store.   (7)

UNIT – IV

IX.   (a)   Explain HTML 5 event attributes.   (8)

       (b)   Write short notes on CSS.   (7)

OR

X.   (a)   Describe how to insert Javascript code in a webpage with an example.   (8)

       (b)   Discuss various multimedia tags in HTML5.   (7)

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