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TED (15) – 6133

Reg. No.

(REVISION — 2015)

Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019

SMART DEVICE PROGRAMMING

[Time : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. List any two operating systems used in mobile phones.
2. Write the expansion for LTE and CDMA.
3. Write the syntax of startActivity() method in Android.
4. Write the XML code to give permission to send and receive SMS in Android Manifest.xml.
5. Write an HTML 5 tag to create a field that accepts date.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Write short notes on mobile technologies 3G and 4G.
2. With diagram explain Dalvik Virtual Machine.
3. Describe services and different types of services in Android.
4. Write short note on option menu and explain how to create option menu with example in Android.
5. Describe how to return result from one activity to another in Android with example.
6. Write the steps to create and insert values in SQLite database in Android.
7. Create an HTML 5 form to input Name, Mobile number, email Id and gender of a person.

(5×6 = 30)

PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Define AVD and write the procedure for creating and configuring AVD. 8
 (b) Write any seven features of Android Operating System and explain. 7

OR

- IV (a) Describe any seven features of Android Studio. 7
 (b) Compare the features of GSM and CDMA mobile technologies. 8

UNIT — II

- V (a) With diagram explain the life cycle of an Android activity. 8
 (b) Write short notes on intent resolution. 7

OR

- VI (a) With example explain any two methods to pass data between activities. 8
 (b) Write short notes on content providers and broadcast receivers. 7

UNIT — III

- VII (a) Explain any four layouts and its attributes used in Android UI design. 8
 (b) Write the procedure to publish android application in Google play store. 7

OR

- VIII (a) Write the procedure to retrieve data from an external memory using file stream. 7
 (b) Write short notes on the following View - EditText, Button, CheckBox, RadioGroup and RadioButton. 8

UNIT — IV

- IX (a) Write any four uses of JavaScript. Write the steps to insert JavaScript in a web page with example. 9
 (b) Write short notes on PhoneGap technology and its advantages. 6

OR

- X (a) Write short notes on any six HTML 5 multimedia tags with attributes. 9
 (b) Write any two advantages of using CSS to style webpage. Write two different ways to insert CSS in a web page with example. 6