**Daffodil International University**

# Department of Computer Science and Engineering

**Faculty of Science & Information Technology**

**Final Examination, Summer 2020 @ DIU Blended Learning Center**

**Course Code: CSE334 (Day), Course Title: Wireless Programming**

**Level: 3      Term: 3        Section: PC-F**

**Instructor: ABAM          Modality: Open Book Exam**

**Date: Tuesday 22 December, 2020      Time: 09:00 am - 01:00 pm**

**Four hours (4:00) to support online open/case study based assessment      Marks: 40**

1. **Suppose,** you have the following user interface of android apps which contains EditText(id:e1_last 4 digit of your DIU ID, hint: "Enter a number"), ListView(id:fact_last 4 digit of your DIU ID, text as given inside the ListView and a TextView(id:display_last 4 digit of your DIU ID, text as follows. Now  answer the questions below.

   721500243

   Enter a number

   Factorial value

   Root value

   Square root value

   power of  10

   Converted result will show here

a) Think about the above scenario if android studio gives any error during developing the apps according to above information then correct the scenario otherwise keeps unchanged.                                                                         2

b) Write xml code to design the given user interface.                                                                          5

c) Write java code to develop the given user interface so that it gives the proper output according to ListItem name.                                                                       5

d) If any user click on any of the List Item before giving input in EditText then what will happen and how to control that situation?                                                        3

e) During solving 1(c) if you don't write the following line then what will happen?                          3

```
setContentView(R.layout.activity_main);
```

f) During solving 1(b) which Layout you have used and why? Which Layout is preferable?        3

g) If you use **LinearLayout** with vertical orientation to solve 1(b) and if you write the following xml code in each palette then what will happen and how to solve it?                      3

```
android:layout_height="match_parent"
```

h) Explain the following line of java code.                                                                          3

```
ArrayAdapter<String> adapter1 = new
ArrayAdapter<String>(this,
        android.R.layout.simple_dropdown_item_1line,
android.R.id.text1, values);
```

i) If you are said to change the above design into spinner then instead of ListView then change the require code segment in both of xml and java part.                                   10

j) If you are said to change the app name from 721500243 to your own DIU ID then Where and you can do it.                                                                     3