



# Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Final Examination

Semester: Fall - 2017

Course Code: CSE 334 (DAY)

Course Title: Wireless Programming

Course Teacher: ALL

Time: 2 hours

Full Marks: 40

**Question 1 is mandatory and then answer any three from rest of four questions**

- ✓1. # You want to build an android based mobile application which works like a Wage calculator from Saturday to Thursday. If an employee works for less than or equal to 2 hours he will earn 150.00 BDT per hour, for less than or equal to 4 hours/he will earn 250.00 BDT per hour and finally for less than or equal to 8 hours he will earn 650.00 BDT per hour. Now calculate the wage of a day based on duration of work done that day.
- You will have 6 **RadioButtons** for six working days of the week. 1 **EditText** to enter how many hours worked. 1 **TextView** for showing the result of wage of the day. 1 **Button** for showing results.
- ✓a. Design the UI (User Interface) of the Android application using xml with the expected features provided with the scenario. [No need to write XML code]. [2]
  - ✓b. Write the java code for the application. [8]
2. ✓a) What is the purpose of InputStream, InputStreamReader, OutputStream and OutputStreamWriter in android socket programming? Give example code to illustrate those. [8]
- ✓b) How AutoCompleteTextView works in android? [2]
3. a) Write down the name of any three useful Http Client Classes with their purposes. [3]
- b) What is the necessity of HttpURLConnection class? Write its purpose and uses. [5]
- c) What is the purpose of BufferedReader class in Android? Provide example code [2]
4. a) What are the basic steps or states in android drag and drop process? Describe clearly. [5]
- b) How will you parse any JSON encoded data from your own Database using android? Just write down the steps in your own words with onPreExecute(), doInBackground(), onPostExecute(). [5]
5. ✓a) What is the difference between JSONObject and JSONArray? Give JSON encoded examples. [3]
- ✓b) What is Android User Interface (UI)? Write down the differences between View and ViewGroup class. Illustrate with proper diagrams. [4]
- ✓c) Write short notes on ServerSocket, Socket and InetAddress. [3]