

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)

Department of Computer Science and Engineering (CSE)

MID SEMESTER EXAMINATION

SUMMER SEMESTER, 2018-2019

DURATION: 1 Hour 30 Minutes

FULL MARKS: 75

CSE 4643: Mobile Application Development

Programmable calculators are not allowed. Do not write anything on the question paper.

There are **4 (four)** questions. Answer any **3 (three)** of them.

Figures in the right margin indicate marks.

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| 1. | a) Discuss on different <i>types of mobile applications</i> along with their pros and cons. | 12 |
| | b) Discuss on various SDK versions. State the relationship between the SDK versions in development environment. | 8 |
| | c) What is AVD? Discuss its importance in Mobile Application Development platform. | 5 |
| 2. | a) What are the meanings of version number, code name, and API level of android applications? | 10 |
| | b) List various components of an <i>Android Project</i> . Explain various internal components of <i>res</i> folder of an Android Project. | 10 |
| | c) What are the functions of a <i>Manifest</i> file? What is the function of <i>Gradle</i> ? | 5 |
| 3. | a) How <i>Dangerous Permissions</i> are needed to be managed from API Level 23? How is it needed to manage prior of API Level 23? Name five Dangerous permission name. | 10 |
| | b) List data storage options for android applications. With example show how data can be <i>saved to</i> and <i>retrieved from</i> shared preferences. | 2+8 |
| | c) Discuss the uses of <i>ContentValues</i> in android with example. | 5 |
| 4. | a) By using a Block Diagram show the steps of producing an android app. What is Dalvik Debug Monitor Server (DDMS)? | 9 |
| | b) Draw <i>Activity Life Cycle</i> flow chart and discuss key blocks. | 8 |
| | c) Write down the basic code to implement a SQLite database with a table named <i>zoo</i> having following schema:
<i>zoo(_id integer primary key autoincrement, name text, description text, file_path text)</i> | 8 |