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1005E483

Candidate's Seat No : _____

M.Sc. (Sem.-II) Examination

410

Computer Science

Paper – 410 (Smart Device Computing using Android)

Time : 3 Hours]

May-2017

[Max. Marks : 70

Q-1

A. Explain SDK, AVD and DVM. (8)

OR

A. Explain Android Life Cycle/Activity life cycle. (8)

B. What is Intent? Describe in brief. (4)

OR

B. Explain the use of scrollview and listview. (4)

C. **Do As Directed :-** (2)

1. An ____ represents a single screen with a user interface just like window or frame of Java.

a. Service.

b. Activity.

c. Security.

d. None of above.

2. Which is the current version of android OS?

Q-2

A. What is Theme and Style? Explain with example, how to create a new Theme. (7)

OR

A. Explain Material Designing in details. (7)

B. What is Menu? Describe in brief. (5)

OR

B. Explain User input controls: Button and CheckBox.

C. **Do As Directed.** (2)

1. A broadcast receiver (receiver) is an Android component which allows you to register for system or application events.[True/False]

2. Which of the following is/are the component(s) of android application?

a. Activities.

b. Content Providers.

c. Services.

d. All of the above.

Q-3

A. What is Web service and JSON code? Explain with example. (8)

B. How to implement map service with Proper location. (4)

OR

- B. Give the difference between firebase account and local server. (4)
- C. Do As Directed. (2)
1. Write a full form of: APK and DVM.
 2. A ___ is a message you can display to the user outside of your android application's normal UI.
 - a. Notification.
 - b. Broadcast.
 - c. Comment.
 - d. Both a & c.

Q-4

- A. What is Content Provider? Implement Content Provider. (6)
- OR**
- A. Explain Firebase Account. (6)
- B. Explain Internal Storage and External storage. (6)
- OR**
- B. Explain default android database class. (6)
- C. Do As Directed. (2)
1. Network connection is the one of the ways to save and retrieve private primitive data in android application in the form of key,value pair.[True/False]
 2. Which method of Loader ensures that a loader is initialized and active?

Q-5

- A. What is Library? Explain any Extra 5 Libraries. (6)
- OR**
- A. What is SQLite Database? Explain in brief using Query(Insert,Select). (6)
- B. What are widgets? When to use them and how to implement them? (6)
- OR**
- B. Explain Alarm Manager. (6)
- C. Do As Directed. (2)
1. A service is started when an application component (such as an activity) calls ___method.
 - a. bindService().
 - b. onStartService().
 - c. onCreateService().
 - d. startService().
 2. JSON stands for JavaScript Object Notation.[True/False]