CSIT828 [ET]

Enroll. No. -

END SEMESTER EXAMINATION : Nov-Dec,

2024

Android Programming

Time : 3.00 Hrs

Maximum Marks : 50

Note: Attempt questions from all sections as directed. No additional material is required.

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Q1. Mobile computing continues to evolve, driven by advancements in technology. Justify this statement . Also explain the best practices for ensuring security in mobile computing.

Q2. Explain Android Architecture with suitable diagram.

Q3. Explain Fragments with the help of an example.Briefly discuss about Linking Activities and fragments. Q4. Explain Android Web Services, and how are they used in Android applications?

Q5. Discuss the common vulnerabilities in Android applications that hackers exploit?

# Section - B : Attempt any two questions out of three. Each question

(5)

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(5)

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# carries 8marks.

Q6. (a)

(1s Marks]

Make an android application using basic views for student‘s registration of basic details like Name, Enrollment No, Branch, Address and Mobile Number.

(b) Write XML code for the following GUI. Name : [EditText] (Use textview for Name)

Password : [EditText] (Use textview for Password) Buttons : Subm it and Cancel.

Q7. Develop an application to send and receive SMS. (Write ONLY .java and permission tag in manifest file)

q8. (a)

Explain the differences between a Content Provider and other data storage options like SQLite databases or SharedPreferences?

(b) Create an android activity which displays the life cycle methods call in LogCat Window.

Section - C Compulsory question [14 Nlarks

Q9. (a)

(4}

(4)

(8}

(4)

4)

Create an application to develop a simple Android application that performs regular CRUD (Create, Read, Update, and (10)

Delete) operations for manag ing contacts. The application will store contact information (name and phone number} in an SQLite database and provide a user interface to manage this data.

The application, named “Contact Manager", allows users to:

* Add new contacts.
* View a list of existing contacts.
* Edit details of an existing contact.
* Delete contacts.

User Interface:

* A form to add and edit contacts.
* A list view to display all contacts.
* A form for editing and deleting contacts.

The SQLite database consists of a single table named contacts with the following schema:

id (INTEGER PRIMARY KEY): Unique identifier for each contact.

* name (TEXT): The name of the contact.
* phone\_number (TEXT): The phone number of the contact.

(b} Explain Menus in Android. Give one example of context menu.

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