

P P SAVANI UNIVERSITY

Fourth Semester of B. Tech. Examination

May 2019

SEIT2021 Mobile Application Development

15.05.2019, Wednesday

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

Instructions:

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

SECTION - I

- Q - 1** Multiple Choice Questions (Any Five) [05]
- (i) Which of the following operating system for mobile phones is a flagship software of Open Handset Alliance (OHA)?
- A. iOS ☒ B. Android
C. Microsoft Windows D. None of these
- (ii) Which of the following is not an Android terminology?
- ☒ A. Context B. Service
C. Segment D. Fragment
- (iii) Which class does the Activity class extend?
- A. View ☒ B. Widget
C. Fragment D. Context
- (iv) Which of the following file has information about the identity of Android Application?
- ☒ A. AndroidManifest.xml B. strings.xml
C. styles.xml D. dimens.xml
- (v) _____ is an attribute of <uses-sdk> tag.
- ☒ A. reqTouchScreen B. resizable
☒ C. maxSdkVersion D. anyDensity
- (vi) What is the manifest XML tag for specifying screen sizes supported by your application?
- A. <permission> ☒ B. <supports-screens>
C. <application> D. <instrumentation>
- (vii) _____ folder can be found inside the res folder.
- ☒ A. Drawable B. Tests
C. Main D. Java
- Q - 2 (a)** Create an Android Application to select any three subjects out of five using check box or radio button. (Write down Java Code only.) [05]
- Q - 2 (b)** List out various layouts available in Android. Explain any one in detail. [05]
- OR
- Q - 2 (a)** Create an Android Application that converts distance entered by a user in Kilometres to metres and centimetres. (Write down Java and XML code.) [05]
- Q - 2 (b)** What is ScrollView? Explain with a suitable example. [05]
- Q - 3 (a)** Explain about working with images, icons and launcher icon in Android. [06]
- Q - 3 (b)** Describe themes and styles in Android. What are the best practices for themes and styles? [04]
- OR
- Q - 3 (a)** What are the steps involved in performing spinner in Android? Explain with an example. [06]
- Q - 3 (b)** Explain various types of menus in android with an example of any one type of menu. [04]

- Q - 4 Attempt any One. [05]
(i) Explain five UI Controls.
(ii) Explain ArrayAdapter with an example.

SECTION - II

- Q - 1 Answer short questions (Any Five) [05]
(i) What does the .apk extension stands for?
(ii) What runs in the background and doesn't have any UI components?
(iii) Which manifest file permission you should add to allow your application to read the device's address book?
(iv) What is Google Map api?
(v) What is a Splash Screen?
(vi) How to get device information in your app?
(vii) What is JSON?
Q - 2 (a) Explain SQLite Database in android [05]
Q - 2 (b) Explain Telephony Manager with an example [05]

OR

- Q - 2 (a) What is notification in Android? Explain with an example. [05]
Q - 2 (b) What is shared preference? [05]
Q - 3 (a) What are the types of animation offered by android? When to use each type of animation and how? *7 FF object intent* [05]
Q - 3 (b) Explain Service in Android. [05]

OR

- Q - 3 (a) Explain Web Service and how it is useful in Application. [05]
Q - 3 (b) Why permission is required? Explain any two permissions. [05]
Q - 4 Attempt any one. [05]
(i) Create a simple registration form using EditText, RadioButton, and store the user value in Sqlite.
(ii) Write a code to send email from android app.
