



# P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

**Fifth Semester, B.E. - Computer Science and Engineering**

**Semester End Examination; Feb. - 2021**

**Android Application Development (Technical Skills - I)**

Time: 2 hr.

Max. Marks: 50

### Course Outcomes

The Students will be able to:

CO1: Develop simple consumable web services for mobile devices.

CO2: Apply Java programming concepts to Android application development.

CO3: Design and Develop Android application by setting up Android development environment.

CO4: Implement adaptive and responsive graphical user interfaces that work across a wide range of devices.

CO5: Create mobile application to persist data in Android applications.

**Note: All questions are compulsory and each question carries TWO marks.**

Q. No.	Questions	BLs	COs	POs
1.	An operating system (OS) built exclusively for mobile devices such as smart phones, tablets, PDAs, etc. Similar to a standard OS but is relatively simple and light. a) Windows Operating System                      b) Linux Operating System c) Macintosh Operating System                      d) Mobile Operating System	L1	CO1	PO1
2.	_____ is the basis for web services. a) PHP                      b) XML                      c) CGI                      d) CSS	L1	CO1	PO1
3.	It is developed by Apple and is distributed exclusively for Apple hardware (iPhone, iPad, etc.). One of its well-known features is its multi-touch gestures. a) iOS (iPhone OS)                      b) Windows OS                      c) Android OS                      d) Blackberry OS	L1	CO1	PO1
4.	Which of the following is correctly defining web service interoperability? a) Web services allow various applications to talk to each other and share data and services among themselves b) Other applications can also use the web services c) Web services are used to make the application platform and technology independent d) All of the above	L2	CO1	PO1
5.	Which of the following has made the development of mobile Web applications much easier and more powerful? a) Web Services                      b) Cloud Computing                      c) IM                      d) None of the mentioned	L1	CO1	PO1
6.	Suppose that there are two activities in an application named ActivityOne and ActivityTwo. Code used to invoke ActivityTwo from ActivityOne is a) Intent intent = new Intent (this, ActivityTwo.class); startActivity(intent); b) startActivity(new Intent(this, ActivityTwo.class)); c) Option A and B are correct d) None of the above	L3	CO2	PO3

7. What is true about an Android Virtual Device (AVD)?
- An AVD is an emulator instance that enables to model an actual device
  - Create more than one AVDs in order to test the applications with several different configurations L2 CO2 PO1
  - Create more than one AVDs
  - Option A and B are correct
8. What is the life cycle of foreground activity in android?
- onCreate → onStart → onResume → onStop → onRestart
  - onCreate → onStart → onResume → onStop L2 CO2 PO3
  - onCreate → onStart → onResume
  - None of the above
9. Suppose there are two activities in an application named FirstActivity and SecondActivity. Code used to send website name “google.com” from FirstActivity to SecondActivity is
- Intent intent = new Intent (this, SecondActivity.class);  
intent.putExtra("name", "google.com"); startActivity(intent); L4 CO2 PO3
  - Intent intent = new Intent (this, SecondActivity.class);  
intent.putExtra( "google.com"); startActivity(intent);
  - Intent intent = new Intent (); intent.putExtra("name", "google.com");  
startActivity(intent);
  - None of the above.
10. An integer value used to recognize the calling activity is
- Resultcode
  - Code
  - Requestcode
  - All of these L2 CO2 PO1
11. \_\_\_\_\_ sets the gravity of the view or layout in its parent?
- android:gravity
  - android:layout\_gravity L2 CO3 PO1
  - android:weight
  - android:orientation
12. The statement used to access the array that is created in .java file? Suppose that array name is days
- ArrayAdapter<String> adapter = new ArrayAdapter<String>(days);
  - ArrayAdapter<String> adapter = new ArrayAdapter<String> (this, android.R.layout.simple\_dropdown\_item\_1line, days); L3 CO3 PO3
  - ArrayAdapter<String> adapter = new ArrayAdapter<String> (android.R.layout.simple\_dropdown\_item\_1line, days)
  - None of the above
13. ActionBar can be associated to
- Only Fragments
  - Only Activities L1 CO3 PO2
  - Both Activities And Fragments
  - None Of The Above

14. Which of following is incorrect about the Toast class?
- a) You cannot set a custom layout for a Toast.
  - b) A Toast can only create by an Activity class
  - c) There is no need to close or hide a Toast, since it closes automatically.
  - d) A Toast is displayed for only one of the following periods:  
Toast.LENGHT\_SHORT or Toast.LENGTH\_LONG
- L1 CO3 PO2
15. Which of the following attributes is used to set an activity screen to landscape orientation?
- a) screenorientation = landscape
  - b) screenOrientation = "landscape"
  - c) android:ScreenOrientation = "landscape"
  - d) android:screenOrientation = "landscape"
- L1 CO3 PO2
16. Custom view created by extending class
- a) android.widget.View
  - b) android.widget.LinearLayout
  - c) android.view.View
  - d) android.content.Contex
- L1 CO4 PO2
17. How to reference a textbox control in java file that is available in XML file and the ID is txtName.
- a) EditText txtEmpName; txtEmpName = findViewById(R.id.txtName);
  - b) EditText txtEmpName;  
txtEmpName = (EditText)findViewById(R.id.txtName);
  - c) EditText txtEmpName;  
txtEmpName = (EditText)findViewById(txtName);
  - d) None of the above.
- L3 CO4 PO3
18. Which of the following applies a context menu on a ListView?
- a) ListView lv = getListView();lv.registerForContextMenu()
  - b) ListView lv = getListView();registerForMenu(lv);
  - c) ListView lv = (ListView) findViewById(R.id.list\_view\_id);  
registerForContextMenu(lv)
  - d) getListView().setConextMenuEnabled(true)
- L3 CO4 PO2
19. Which of the following is NOT true about the MenuItem interface?
- a) The MenuItem instance will be returned by the Menu class add(...) method.
  - b) MenuItem can decide the Intent issued when clicking menu components.
  - c) MenuItem can display either an icon or text.
  - d) MenuItem can set a checkbox.
- L2 CO4 PO3

20. Consider the following code.

```
public void onCreateContextMenu(ContextMenu menu, View v,
ContextMenuItem menuInfo)
{
    super.onCreateContextMenu(menu, v, menuInfo);
    menu.setHeaderTitle("Menu");
    AdapterContextMenuItem cmi = (AdapterContextMenuItem) menuInfo;
    menu.add(1, cmi.position, 0, "Open file");
    menu.add(2, cmi.position, 0, "Save file");
}
```

L4 CO4 PO3

Which of the following best explains the code above?

- a) The code inflates an xml file into menu items
- b) The code creates menu items for context menu programmatically
- c) The code assign actions to menu items
- d) The code Opens a menu resource file, modifies it, and saves the changes.

21. To send an SMS message programmatically, use the \_\_\_\_\_ class.

- a) SmsManager      b) scAddress      c) sendTextMessage()      d) SMSActiviy

L1 CO5 PO1

22. Which of the following best describes the function of the Database helper class?

- a) To read and write data to a SQLite database
- b) To provide methods to access the data in a SQLite database
- c) To create and upgrade a SQLite database
- d) To open and close a SQLite database

L2 CO5 PO2

23. Name the method that enables to obtain the path of the external storage of an Android device.

- a) getExternalStorageDirectory()      b) getPathExternalStorageDirectory()
- c) getExternalStorageFile()      d) getExternalStoragePath()

L1 CO5 PO2

24. Match the term to their definition.

I.      ContentValues	A. A system for collecting and viewing system debug information.
II.     SharedPreferences	B. Data that continues to be available through many iterations of the app life cycle.
III.    LogCat	C. An object used to store data as a set of key/value pairs
IV.    Persistent data	D. An object used to make bits of primitive data persist.

L2 CO5 PO2

- a) I-A, II-D, III-C, IV-B      b) I-C, II-B, III-A, IV-D
- c) I-C, II-D, III-A, IV-B      d) I-C, II-D, III-B, IV-A

25. There are two statements

**Statement A:** Using Shared Preferences, you can store private primitive data only.

**Statement B:** Using External Storage option, you can store public data on the shared external storage.

Which of them are correct?

L2 CO5 PO2

- a) Statement A is False and Statement B is False
- b) Statement A is True and Statement B is True
- c) Statement A is True and Statement B is False
- d) Statement A is False and Statement B is True