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# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

# Fifth Semester of B. Tech (CE) Examination January 2022

## **CE373 Mobile Application Development**

Date: 28.01.2022, Friday

Time: 10.00 a.m. To 01.00 p.m. Maximum Marks: 70

### Instructions:

- 1. The question paper comprises two sections.
- 2. Make suitable assumptions and draw neat figures wherever required.

### **SECTION - I**

## Q.1 Answer the following questions. [20]

- 1. Which method is called when called to do final cleanup of the fragment's state but Not guaranteed to be called by the Android platform? [1]
  - a. onDestroyView
  - b. onPause
  - c. onDestroy
  - d. onCreateView
- 2. \_\_\_\_\_ specifies how much of the extra space in the layout should be allocated to the view. [1]
  - a. android:layout margin
  - b. android:layout\_weight
  - c. android:layout\_gravity
  - d. android: gravity
- 3. Which of the following layout is preferred for blocking the area for a single item on the screen? [1]
  - a. Linear Layout
  - b. Frame Layout
  - c. Constraint Layout
  - d. Grid Layout
- 4. A \_\_\_\_\_\_ is a simple building block of a user interface. [1]
  - a. Fragment
  - b. Layout
  - c. View
  - d. View Group
- 5. Which method is used to launch a new activity or get an existing activity to do something new?

[1]

- a. Context.startActivity()
- b. Context.startService()
- c. Context.sendBroadcast()
- d. All of the above

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- 6. An Android \_\_\_\_\_\_ is an abstract description of an operation to be performed. It can be used with startActivity to launch an Activity. [1]
  - a. Filters
  - b. Intent
  - c. Service
  - d. Broadcast Receiver
- 7. There are two activities in an application named ActivityA and ActivityB. Youwant to pass data ("Moblie Application Development") from ActivityA toActivityB. What code you will write? [1]
  - a. Intent intent=new Intent (this, ActivityB.class); intent.putExtra("name", "MoblieApplication Development"); startActivity(intent);
  - b. Intent intent=new Intent (this, ActivityB.java); intent.putExtra( "Moblie ApplicationDevelopment"); startActivity(intent);
  - c. Intent intent=new Intent (); intent.putExtra("name", "Moblie Application Development");startActivity(intent);
  - d. None of the above
- 8. What is the sequence of compilation for android Runtime? [1]
  - a. dev2oat -> ART Runtime -> Native COde -> DEX
  - b. DEX -> Native Code -> dex2oat -> ART Runtime
  - c. Native Code -> dex2oat -> ART Runtime -> DEX
  - d. DEX -> dex2oat -> Native Code -> ART Runtime
- 9. Which of the following is not a valid Android resource type? [1]
  - a. Drawable
  - b. Mipmap
  - c. Style
  - d. Manifest
- 10. which of the following XML file is used to define custom themes and looks for the UI of application? [1]
  - a. looks.xml
  - b. colors.xml
  - c. themes.xml
  - d. styles.xml
- 11. By default, orientation of Linear Layout is? [1]
  - A. Vertical
  - B. Horizontal
- 12. \_\_\_\_\_\_ is used to show notification for a particular interval of time. [1]
  - a. View
  - b. Context
  - c. TextView
  - d. Toast
- 13. A \_\_\_\_\_\_ is a piece of an activity which enable more modular activity design. [1]
  - a. Fragment
  - b. sub-activity
  - c. Intents
  - d. Filters

- 14. Superview is having more space (area) compare to safe area in IOS. [1]
  - a. True
  - b. False
- 15. We can't use "where" with switch case in swift. [1]
  - a. True
  - b. False
- 16. In Activity life-cycle, what is the first callback method invoked by the system? [1]
  - a. onStop()
  - b. onStart()
  - c. onCreate()
  - d. onRestore()
- 17. Which configuration file holds the permission to use the internet? [1]
  - a. Layout file
  - b. Property file
  - c. Java source file
  - d. Manifest file
- 18. What does the Layout xml file contain? [1]
  - a. Orientations and layouts that specify what the display looks like
  - b. The permissions required by the app
  - c. The strings used in the app
  - d. The code which is compiled to run the app
- 19. What following IOS code will do? [2]

```
class ViewController: UIViewController {
  @IBOutlet weak var card: UIImageView!
    override func viewDidLoad()
    {
        super.viewDidLoad()
        card.image = UIImage(named: "abc")
    }
}
```

- a. Change label text with "abc"
- b. Change label text with image name "abc"
- c. Change image of imageview with image name "abc"
- d. Will change imageview name with "abc"

#### SECTION - II

## Q.1 Attempt any three. [15]

- 1. What is type casting in swift? Explain with example. [5]
- 2. What is the difference between onCreate() and onStart()? [5]
- 3. Draw and explain Fragment lifecycle in android. [5]
- 4. What is android activity lifecycle? Explain the role of any two methods in detail. [5]

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## Q.2 Attempt any five questions. [35]

- 1. Create an Android app, in which create three fragments: Red, Green and Blue. In the main activity, create three buttons, for each fragment. by clicking on the button, respective fragment should be displayed. [7]
- 2. Create an Android app, in which create a spinner with food names (at least 5) and display the image of the food. (GUI, XML file & Java file only)
- 3. Write android application to create three buttons in main activity which calls different activity when button is pressed. (GUI, XML & Java file only) [7]
- 4. What is Parsing? explain XML parsing and JSON parsing with example. [7]
- 5. What is the difference between a Fragment and an Activity? Explain the relationship between the two [7]
- 6. What is an intent? Differentiate between implicit and explicit intent? How to start activity using intent, Explain with implicit and explicit intent example. [7]
- 7. Explain iPhone operating system architecture. Enlist the main features of latest iOS. [7]