**Long Questions**

1. Explain fixed and wireless network in detail. Also give difference.
2. Explain concept of wireless application protocol.
3. Discuss features of android in detail.
4. Write a short note on android architecture or software stack.
5. Explain kernel native libraries in detail.
6. Explain android runtime and DVM in detail.
7. Write a short note on application framework.
8. Explain application layer of android architecture.
9. Explain Android Emulator in Details.
10. Explain Android Virtual Device in Details (AVD).
11. Explain Android Directory Structure in Details.
12. Define Activity. Explain Types of Activity in Details.
13. List out the types of Layouts. Explain Any 3 Layout in Details.
14. Define SDK. Explain Components of Android SDK in Details.
15. Draw a diagram for activity life cycle and explain it.
16. What is XML? Explain the Features of XML
17. What is XML? What are the Uses of XML? Also give Advantages & Disadvantages of XML
18. What is XML? Explain its syntax.
19. Write a short note on elements in XML?
20. Explain XML root element in detail with example.
21. Explain XML Document in detail.
22. Write a short note on Document Prolog Section in XML.
23. Write a short note on XML declaration along with its rules.
24. Explain Different components of Android Application. (Main and Additional both)
25. Explain Dalvik Virtual machine in detail with its advantages and disadvantages.
26. What is Screen Orientation? How we can change orientation in android ?
27. Explain how we can make activity appear in full screen.
28. What is Widgets? List out different Widgets available in android and Explain EditText with Example.
29. What is Toast? How we can create and display Toast on android Screen?
30. Explain ToggleButton with its events.
31. Explain Button with its properties and onClick Event. How we can create OnClick event Dynamically.
32. Explain CheckBox with example.
33. What is RadioGroup ? Why we need to use it? Explain with Example.
34. Explain title bar of android. How to show and hide title bar?

**Short Question**

1. What is API level?
2. Explain Bluetooth.
3. Discuss spectrum.
4. What is difference between fixed and wireless network?
5. Discuss advantages of Bluetooth technology.
6. Discuss mobile agent.
7. List some features of android.
8. What is android?
9. What are the advantages of android?
10. What is activity in android?
11. What are the life cycle methods of android activity? List them.
12. What is intent?
13. Define Android Toast class.
14. List important folders and files in android project pane.
15. List different layout available in android.
16. Write steps for how to create an Android Project.
17. Explain Advantages of an android Application.
18. Explain AndroidManifest.xml file.
19. Difference between DVM and JVM.
20. Is XML case sensitive?
21. If XML attribute name itself has double quotes, then how it can be represented?
22. What is the correct syntax when we define XML version?
23. What is a markup language?
24. What is XML?
25. What are the features of XML?
26. What are the differences between HTML and XML?
27. Which tag is used to find the version of XML and the syntax?
28. What is an attribute?
29. Can we have empty XML tags?
30. What are the basic rules while writing XML?
31. What is XML Element?
32. How comment can be represented in XML?
33. Who is responsible for XML?
34. What is well formed XML document?
35. Why XML has been used for development?
36. What are the special characters used in XML?
37. Whether graphics can be used in XML?
38. Can I replace HTML with XML?
39. What are the benefits of XML?
40. What are nested elements in XML?
41. What is Simple Element?
42. What is Complex Element?
43. Whether root element is required for XML? If so, how many root elements are required?
44. What is the difference between simple element and complex element?
45. Define Structure of XML?
46. What is event listener in android?
47. Discuss setChecked() event of ToggleButton.
48. Explain isChecked Method of CheckBox with Example.
49. What is textOff and textOn in ToggleButton. Why we use it?
50. Explain Toast.makeText() Method with parameters.
51. Listout the different input types of EditText.
52. What is the significance of Toast Class?
53. Which method change the state of ToggleButton.
54. What is Toast? When we can use it.
55. What are the different values for Orientation?
56. Differentiate ToggleButton and CheckBox.

**MCQ**

Unit – 1

1. Bluetooth is \_\_\_\_\_\_\_\_ technology.
2. High speed
3. Low powered
4. Wireless
5. All of the above

Ans : d

1. WAP stands for
2. Wireless application protocol
3. Wired application protocol
4. Wired advanced protocol
5. Wireless advanced protocol

Ans : a

1. Android is \_\_\_\_\_\_\_
2. Windows based operating system
3. Opensource operating system
4. Not an operating system
5. None of the above

Ans : b

1. API Level is an integer value that uniquely identifies the framework API revision offered by a version of the Android platform.
2. True
3. False

Ans : a

1. For which of the following Android is mainly developed?
2. Servers
3. Desktops
4. Laptops
5. Mobile devices

Ans : d

1. Android is based on which of the following language?
2. Java
3. C++
4. C
5. None of the above

Ans : a

1. Which of the following kernel is used in Android?
2. MAC
3. Windows
4. Linux
5. Redhat

Ans : c

1. We require an AVD to create an emulator. What does AVD stand for?
2. Android Virtual device
3. Android Virtual display
4. Active Virtual display
5. Active Virtual device

Ans : a

1. Which of the following is contained in the src folder?
2. XML
3. Java source code
4. Manifest
5. None of the above

Ans : b

1. What is contained in manifest.xml?
2. Source code
3. List of strings used in the app
4. Permission that the application requires
5. None of the above

Ans : c

1. Which of the following class in android displays information for a short period of time and disappears after some time?
2. toast class
3. log class
4. maketest class
5. None of the above

Ans : a

Unit:-2 Setting up Android Environment (MCQ)

1. What is Full Form of JDK
2. Java Developer Kit
3. Java Development Kit
4. Java Device Kit
5. All of these

Ans:- b.) Java Development kit

1. We require an AVD to create an emulator. What does AVD stand for?

a.) Active Virtual Device

b.) Android Visual Device

c.) Android Virtual Device

d.) Active Virtual Display

Ans:- c.) Android Virtual Device

1. What is Full Form of SDK?

a.) Software Development Kit

b.) Software Design Kit

c.) System Development Kit

d.) a & b both

Ans:- a.) Android Virtual Device

4.) Which of the following virtual machine is used by the Android operating system?

a.) JVM

b.) Dalvik Virtual Machine

c.) Simple Virtual Machine

d.) None of these

Ans:- b.) Dalvik Virtual Machine

5.) What is an activity in android?

a.) android class

b.) android package

c.) A single screen in an application with supporting java code

d.) None of the above

Ans:- c.) A single screen in an application with supporting java code.

6.) On which of the following, developers can test the application, during developing the android applications?

a.) Third-Party Emulators

b.) Emulator included in Android SDK

c.) Physical Android Phone

d.) All of the above

Ans:- d.) All of the above.

7.) Which of the following is the first callback method that is invoked by the system during an activity life-cycle?

a.) onClick() method

b.) onCreate() method

c.) onStart() method

d.) onRestart() method

Ans:- b.) onCreate() method.

8.) In Android studio, which of the following callback is called when an activity starts interacting with the user?

a.) onDestory() method

b.) onCreate() method

c.) onResume() method

d.) onStop() method

Ans:- c.) onResume() method.

9.) Which of the following method is used by services to clean up any services?

a.) onDestory() method

b.) stopService() method

c.) stopself() method

d.) onStop() method

Ans:- a.) onDestory() method.

10.) Which of the following layout in android arranges its children into rows and columns?

a.) RelativeLayout

b.) TableLayout

c.) FrameLayout

d.) None of the above

Ans:- b.) TableLayout.

11.) Which of the following layout in android aligns all children either vertically or horizontally?

a.) RelativeLayout

b.) TableLayout

c.) FrameLayout

d.) LinearLayout

Ans:- d.) Linear Layout

12.) What is the default value of the orientation attribute in LinearLayout?

a.) Horizantal

b.)Vertical

c.) There is no default value of orientation attribute in LinearLayout

d.) None of the above

Ans:- a.) Horizantal

13.) What method do we use to kill an Activity?

a.) onResume()

b.) finish()

c.) onStart()

d.) Kill()

Ans:- b.) finish()

14.) In Android studio which layout is a default layout in XML?

a.) Constraint Layout

b.) Frame Layout

c.) Relative Layout

d.) None of these

Ans:- a.) Constraint Layout

15.) The Component of android that manages appearance and format on screen is called?

a.) Layout

b.) Activity

c.) Intent

d.) Class

Ans:- a.) Layout

16.) **How to pass the data between activities in Android?**

a.) Content Provider

b.) Broadcast Receiver

c.) Intent

d.) None of the above

Ans:- c.) Intent

17.) **A type of layout elements that allows all included elements in order is?**

a.) ConstraintLayout

b.) TextviewLayout

c.) LinearLayout

d.) RelativeLayout

Ans:- c.) LinearLayout

Unit – 3 XML Multiple Choice Questions and Answers  
  
1. What does XML stand for?

A. eXtra Modern Link  
B. eXtensible Markup Language  
C. Example Markup Language  
D. X-Markup Language

Ans: B - eXtensible Markup Language  
  
2. What is the correct syntax of the declaration which defines the XML version?:

A. <xml version="1.0" />  
B. <?xml version="1.0"?>  
C. <?xml version="1.0" />  
D. None of the above

Ans: B <?xml version="1.0"?>  
  
3. Which statement is true?

A. All XML elements must have a closing tag  
B. All XML elements must be lower case  
C. All XML documents must have a DTD

D. All the statements are true

Ans: A - All XML elements must have a closing tag  
  
4. Is it easier to process XML than HTML?

A. Yes  
B. No  
C. Somtimes  
D. Cant say

Ans: A - Yes

5. Comment in XML document is given by

A. <?-- -->  
B. <!-- --!>  
C. <!-- -->  
D. </-- -- >

Ans: C - <!-- -->

6. Which of the following strings are a correct XML name?

A. \_myElement  
B. my Element  
C. #myElement  
D. None of the above

Ans: A - \_myElement

7. Which of the following strings are a correct XML name?

A. xmlExtension  
B. xslNewElement  
C. XMLElement#123  
D. All

Ans: B - xslNewElement

8. Which of the following XML fragments are well-formed?

A. <?xml?>  
B. <?xml version="1.0"?>  
C. <?xml encoding="JIS"?>  
D. <?xml encoding="JIS" version="A.0"?>

Ans: B - <?xml version="1.0"?>

9. What are the predefined attributes

A. xml:lang  
B. xml:space  
C. both  
D. none.

Ans: C - both

10. Attribute standalone="no" should be included in XML declaration if a document:

A. is linked to an external XSL stylesheet  
B. has external general references  
C. has processing instructions  
D. has an external DTD

Ans: D - has an external DTD

11. <?xml version=”1.0” standalone=” yes” encoding=”UTF-8” ?>

A. it shows that the version is 1.0  
B. shows that it is standalone  
C. the standalone is wrong  
D. version attribute is not in XML

Ans: C - the standalone is wrong

12. Xml is designed to store data and \_\_\_\_\_\_\_\_\_

1. Design
2. Verify
3. Both A & B
4. Transport

Ans: D - Transport

13. XML is?

1. Platform independent
2. Language independent
3. Both A & B
4. None of above

Ans: C - Both A & B

14. XML is similar to which language?

1. HTML
2. JavaScript
3. PHP
4. ASP

Ans: A - HTML

15. Which is not a XML function?

1. Transport information
2. tyle information
3. Store information
4. Structure information

Ans: B - tyle information

16. Which are the main features of XML?

1. Text data description
2. Human- and computer-friendly format
3. Handles data in a tree structure having one-and only one-root element
4. All mentioned above

Ans : D - All mentioned above

17. Abbreviate the term DOM?

1. Developed Object Model
2. Document Object Model
3. Document Oriented Model
4. None of the above

Ans: B - Document Object Model

18. Each XML document must have:

1. Closing tag
2. Root element
3. Nested child
4. Both A and B

Ans: D - Both A and B

19. XML is a \_\_\_\_\_\_\_ Recommendation.

1. Microsoft
2. Sun
3. W3C
4. Google

Ans: C - W3C

20. Which is not a correct name for an XML element?

1. <student>
2. <first name>
3. <lastName>
4. <\_class>

Ans: B - <first name>

21. XML has \_\_\_\_ tags.

1. Predefined
2. Custom
3. Both A and B
4. None of the above

Ans: B - Custom

22. XML uses Document Type Definition (DTD) to describe the data.

1. True
2. False

Ans: A - True

23. XML Element names cannot contain \_\_\_

1. Spaces
2. Underscore
3. Both A and B
4. None of above

Ans: A - Spaces

24. XML Element names cannot use reserved word xml.

1. True
2. False

Ans: A - True

25. XML is a \_\_\_\_.

1. programming language
2. Markup language
3. scripting language
4. None of the above

Ans: B - Markup language

Unit – 4

1. A type of component that allows applications to share and publish data among multiple applications.

a)Views b) **Content Provider**

c) Broadcast Receivers d) Activities

2. A Service provided by android that shows message and alert to user

a) **Notification**  b) Widgets

c) Intents d) Fragments

3. JVM stands for

a) Java Virtual Mechanism b) Just Virtual Machine

c) Java Variable Machine d) **Java Virtual Machine**

4.  For which of the following Android Application is mainly developed?

a) Laptop b) Desktop

c) **Mobile Device** d) Server

5.  APK Stands For

a) Android Phone kit b) Android Page kit

c) **Android Package kit** d) None of the above

6.  Which of the following converts Java byte code into Dalvik byte code?

a) Dalvik converter b) **Dex Compiler**

c) Mobile interpretive compiler (MIC) d) None of the above

7.  What is an activity in android?

a) Android Class b) Android Package

c) **It represents a single screen with a user interface** d) All of the above

8. What is a fundamental building component of Android?

a) Content Provider b) Broadcast Receivers

c) Activities d) **All of the above**

# 9. The architecture used by DVM (Dalvik Virtual machine) is \_\_\_\_\_\_\_\_\_\_\_ based.

a) **Register** b) Stack

c) Queue d) None of the above

# 10. \_\_\_\_\_\_\_\_\_\_\_ is an important file that defines the structure and metadata of application.

a) Layout.xml b) **Manifest.xml**

c) String.xml d) colour.xml

Unit – 5

1. When a button is clicked, which listener you can use?  
   A) SetOnClickListener  
   B) OnClickListener  
   C) ClickListener  
   D) None of the above.

Ans : B

1. OnCheckedChangeListener can be used with which control?  
   A) Button  
   B) CheckBox  
   C) Option A and B are correct.  
   D) None of the above.

Ans : B

1. To display text which control you will use?  
   A) EditText  
   B) TextView  
   C) label  
   D) None of the above.

Ans : B

1. \_\_\_\_\_\_\_\_\_\_\_ means it will occupy the complete space available on the display of the device.  
   A) wrap\_content   
   B) match\_content  
   C) match\_parent  
   D) wrap\_parent

Ans : C

1. What is Toast class?
2. The Toast class is used to display notifications on the device's status bar.
3. The Toast class is used to display notifications on the device's status bar and disappears after a few seconds
4. The Toast class is used to display alerts to the user and disappears when user click on OK button
5. The Toast class is used to display alerts to the user and disappears after a few seconds

Ans : D

1. How to display a Toast>
2. Using show() method
3. Using getText() method
4. Using Display() method
5. None of above

Ans: A

1. Title bar is set using\_\_\_\_\_\_\_\_
2. ActionBar().setTitle() method
3. getSupportActionBar().setTitle() method
4. grtSupportActionBar().Text() method
5. None of this

Ans : B

1. When we checked and unchecked toggle button which event is handled?
2. OnCheckedChange()
3. OnClick()
4. OnToggleClick()
5. None of the above

Ans : A

1. Which of the following method must be called to hide the title bar?
   1. requestWindowFeature(Window.FEATURE\_HIDE\_TITLEBAR)
   2. requestWindowFeature(Window.FEATURE\_HIDE\_TITLE)
   3. requestWindowTitle(Window.FEATURE\_HIDE\_TITLE)
   4. **requestWindowFeature(Window.FEATURE\_NO\_TITLE)**
2. The ScreenOrientation is an attribute of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ element.
   1. Layout
   2. Menifest File
   3. **Activity**
   4. None of the above
3. Where we need to define Orientation of activity ?
   1. Android Menifest File
   2. **Activity Class**
   3. XML Layout Design
   4. Gradle Class
4. In which case system will choose the orientation of Screen ?
   1. Sensor
   2. **Unspecified**
   3. Landscape
   4. Portrait
5. Which of the following is not a type of Button in android?
   1. PushButton
   2. ToggleButton
   3. **LinkButton**
   4. RadioButton
6. Which of the following listener can be used to perform task on Click event of Button
   1. Button.onClickLinstener
   2. **View.onClickListener**
   3. View.clickListener
   4. Button.clickListener
7. When we can use Toast?
   1. To display message at top of the screen
   2. To send notification on device lock screen
   3. **To display message for short Period of time**
   4. None of the above
8. What is Toast?
   1. **Class**
   2. Activity
   3. Method
   4. Layout
9. Which method is used to show Toast message on screen?
   1. makeText
   2. showText
   3. **show**
   4. None of the above
10. Which of the following is not an argument for makeText Method of Toast Class?
    1. Current context
    2. Message
    3. **Resource name**
    4. Duration
11. Which of the following widget can be used as an alternative of CheckBox?
    1. RadioButton
    2. PushBotton
    3. **ToggleButton**
    4. ImageButton
12. Which Method is used to change state of ToggleButton?
    1. setTextOff
    2. setStatus
    3. **setChecked**
    4. setOnOff
13. Radio Button cannot be unchecked once it is checked by user.
    1. True
    2. False

**Some List of Programs**

1. Create application for basic arithmetic operation. (+,-,\*,%)
2. Create application that display title bar and hide title bar with toggle button.
3. Create application for calculating simple interest. Also use Toast class to display result.
4. Create application for calculating area ( circle Pi \* r \*r , triangle 0.5 \* b\*h, rectangle l\*w).
5. Create application to change colour of text or background on button click. (Red, Green, Blue, Gray)
6. Accept details and display them on next activity screen.
7. Create android application that accept text and change font size and style on button click.
8. Accept two string and join them.
9. Create application to generate bill for hotel. Display menu and price of the item. Select the order item (Use check box) calculate bill amount. Also calculate discount.
10. Create application using checkbox for assignment submission of students. Display submitted student detail on next activity screen.