

**2021**

*Time : 3 hours*

*Full Marks : 100*

*Candidates are required to give their answers in  
their own words as far as practicable.*

*The questions are of equal value.*

*Answer all questions.*

Select the correct option of the following  
questions :

1. Android is :
  - (a) An operating system
  - (b) Web browser
  - (c) A web server
  - (d) None of these
2. Which of the following is the first mobile phone released that ran the Android OS ?
  - (a) HTC Hero
  - (b) Google gPhone



(c) T-Mobile G1

(d) None of these

6.

3. For which of the following Android is mainly developed ?

(a) Servers

(b) Desktops

(c) Laptops

(d) Mobile devices

7.

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

5. Android is based on which of the following language ?

(a) Java

(b) C++

(c) C

(d) None of these



6. APK stands for :
- (a) Android Phone Kit
  - (b) Android Page Kit
  - (c) Android Package Kit
  - (d) None of these
7. What does API stand for ?
- (a) Application Programming Interface
  - (b) Android Programming Interface
  - (c) Android Page Interface
  - (d) Application Page Interface
8. How can we stop the services in android ?
- (a) By using the stopself() and stopservice() method
  - (b) By using the finish() method
  - (c) By using system.exit() method
  - (d) None of these
9. 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 these

10. ADB stands for :

(a) Android debug bridge

(b) Android delete bridge

(c) Android destroy bridge

(d) None of these

11. Which of the following kernel is used in Android ?

(a) MAC

(b) Windows

(c) Linux

(d) Redhat

12. 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



13. We require an AVD to create an emulator. What does AVD stand for ?
- (a) Android Virtual device
  - (b) Android Virtual display
  - (c) Active Virtual display
  - (d) Active Virtual device
14. Does android support other languages than java ?
- (a) Yes
  - (b) No
  - (c) May be
  - (d) Can't say
15. Which of the following is contained in the src folder ?
- (a) XML
  - (b) Java source code
  - (c) Manifest
  - (d) None of these
- \*16. Which of the following method is used to handle what happens after clicking a button ?
- (a) onClick
  - (b) onCreate



- (c) onSelect
  - (d) None of these
17. Which of the following android component displays the part of an activity on screen ?
- (a) View
  - (b) Manifest
  - (c) Intent
  - (d) Fragment
18. Which of the following is the name of the Android version 1.5 ?
- (a) Eclair
  - (b) Froyo
  - (c) Cupcake
  - (d) Donut
19. Which of the following is the topmost layer of android architecture ?
- (a) System Libraries and Android Runtime
  - (b) Linux Kernel
  - (c) Applications
  - (d) Applications Framework



20. Which of the following is not a state in the service lifecycle ?
- (a) Destroyed
  - (b) Start
  - (c) Paused
  - (d) Running
21. Which of the following is not a nickname of any android version ?
- (a) Donut
  - (b) Muffin
  - (c) Honeycomb
  - (d) Cupcake
22. Which of the following is a dialog class in android ?
- (a) Alter Dialog
  - (b) Data Picker Dialog
  - (c) Progress Dialog
  - (d) None of these
23. Which of the following is the built-in database of Android ?
- (a) SQLite



- (b) MySQL
- (c) Oracle
- (d) None of these

24. Which of the following android version is named Jelly Bean ?

- (a) 3.1
- (b) 2.1
- (c) 1.1
- (d) 4.1

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

- (a) onStop() method
- (b) stopService() method
- (c) onDestroy() method
- (d) stopSelf() method

26. All layout classes are the subclasses of :

- (a) Android.view.View
- (b) Android.view.ViewGroup
- (c) Android.widget
- (d) None of these



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

- (a) RelativeLayout
- (b) TableLayout
- (c) FrameLayout
- (d) None of these

28. What is Android ?

- (a) Android is a stack of software's for mobility
- (b) Google mobile device name
- (c) Virtual machine
- (d) None of these

29. What is Manifest.xml in android ?

- (a) It has information about layout in an application
- (b) It has the information about activities in an application
- (c) It has all the information about an application
- (d) None of these

\* 30. What is singleton class in android ?

- (a) A class that can create only one object



- (b) Anonymous class
- (c) Java class
- (d) Manifest file

31. What is a thread in android ?

- (a) Same as services
- (b) Background activity
- (c) Broadcast Receiver
- (d) Independent dis-patchable unit is called a thread

32. Which media format is not supported by android ?

- (a) MP4
- (b) AVI
- (c) MIDI
- (d) MPEG

33. What is JNI In Android ?

- (a) Java interface
- (b) Java Native Interface
- (c) Java Network Interface
- (d) Image Editable Tool



34. Which component is responsible for converting bytecode into machine specific code ?

(a) JVM

(b) JDK

(c) JIT

(d) JRE

35. Which of the below is invalid identifier with the main method ?

(a) Public

(b) Static

(c) Private

(d) Final

36. What is use of interpreter ?

(a) They convert bytecode to machine language code

(b) They read high level code and execute them

(c) They are intermediated between JIT and JVM

(d) It is a synonym for JIT



37. Which of the following is not OOPS concept in Java ?

- (a) Inheritance
- (b) Encapsulation
- (c) Polymorphism
- (d) Compilation

38. Which of the following is a type of polymorphism in Java ?

- (a) Compile time polymorphism
- (b) Execution time polymorphism
- (c) Multiple polymorphism
- (d) Multilevel polymorphism

39. When does method overloading is determined ?

- (a) At run time
- (b) At compile time
- (c) At coding time
- (d) At execution time

40. Which feature of OOPS derives the class from another class ?

- (a) Inheritance



- (b) Data hiding
- (c) Encapsulation
- (d) Polymorphism

\* 41. A single program of OOPS contains \_\_\_\_\_ classes ?

- (a) Only 1
- (b) Only 999
- (c) Only 100
- (d) Any number

42. Which of the following language uses the classes but not the polymorphism concept ?

- (a) Procedure Oriented language
- (b) Object-based language
- (c) Class-based language
- (d) If classes are used, then the polymorphism concept will always be used in the programming languages

43. Which member of the superclass is never accessible to the subclass ?

- (a) Public member



- (b) Protected member
  - (c) Private member
  - (d) All of the mentioned
- 44. The object cannot be :
- (a) Passed by copy
  - (b) Passed as function
  - (c) Passed by value
  - (d) Passed by reference
45. How many sizes are supported by Android ?
- (a) Android supported all sizes
  - (b) Android does not support all sizes
  - (c) Android supports small, normal, large and extra-large sizes
  - (d) Size is undesfined in android
- 46. What is the difference between services and thread in android ?
- (a) Services perfoms functionalities in the background. By default services run on main thread only



(b) Thread and services are having same functionalities

(c) Thread works on services

(d) None of these

47. How to upgrade SQLite the database from a lower version to higher version in android SQLite ?

(a) Using helper Class

(b) Using cursor

(c) Using intent

(d) None of these

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(d) None of these

49. What is the 9 patch tool in android ? <sup>a)</sup> Using with tool, we can redraw images in 9 sections.

(a) Image extension tool



(b) Image editable tool

(c) Device features

• 50. What is breakpoint in android ?

(a) Breaks the application

(b) Breaks the development code

(c) Breaks the execution

(d) None of these

• 51. What are the functionalities of HTTP Client interface in android ?

(a) Connection management

(b) Cookies management

(c) Authentication management

(d) All of these

• 52. Explain android activity life cycle ?

(a) onCreate() → onStart() → onActivityStarted() → onResume() → onPause() → onStop() →

(b) OnActivityDistroy() → onDestroy()

(c) OnCreate() → onStart() → onResume() → onPause() → onStop() → onRestart() →

(d) OnDestroy()



- (e) onCreate() → onStart() → onPause() → onResume() → onStop() → onDestroy()
- (f) → onResume()

53. Which company developed android ?

- (a) Apple
- (b) Google
- (c) Android Inc.
- (d) Nokia

54. Which company bought android ?

- (a) Apple
- (b) No company
- (c) Nokia
- (d) Google

55. Web browser available in android is based on :

- (a) Chrome
- (b) Firefox
- (c) Open-source Webkit
- (d) Opera



• 56. Which of the following Dialog boxes are supported by Android ?

1. AlertDialog,
2. ProgressDialog,
3. DatePickerDialog
4. Timepickerdialog<

- (a) 1 and 2
- (b) 3 and 4
- (c) Both (a) and (b)
- (d) None of these

57. If you want to increase the whitespace between widgets, you will need to use the \_\_\_\_\_ property.

- (a) Android:padding
- (b) Android:digits
- (c) Android:capitalize
- (d) Android:autoText

• 58. Using content provider, which of the following operations are able to perform ?

1. create, 2. read, 3. update, 4. delete.

- (a) 1, 2, 3



- (b) 2, 3, 4
  - (c) Both (a) and (b)
  - (d) None of these
59. Which of the following don't have any UI component and run as a background process ?
- (a) Services
  - (b) Simulator
  - (c) Emulator
  - (d) None of these
60. Which of the following holds Java source code for the application ?
- (a) res/
  - (b) assets/
  - (c) src/
  - (d) bin/
61. Eclipse is an :
- (a) Android tool
  - (b) IDE
  - (c) Android interface
  - (d) None of these



- 62. To update contents of content provider using curser and commit you need to call :
- (a) commitUpdates()
  - (b) updates()
  - (c) commit()
  - (d) None of these
63. What is mean by ANR ?
- (a) Application not Recognized
  - (b) Android not recognized
  - (c) Application Not Responding
  - (d) None of these
64. In \_\_\_\_\_ sender specifies type of receiver.
- (a) Implicit intent
  - (b) Explicit intent
  - (c) Both (a) and (b)
  - (d) None of these
- ' 65. Which of the following are different storage methods available in Android ?
- 1.Shared Preference, 2. Internal Storage,



3. External Storage, 4. SQLite Databases, 5. Network Connection, 6. Intermediate storage

(a) 1,2,3,4,6

(b) 2,3,4,5,6

(c) 1,2,3,4,5

(d) All of these

66. For creating user interface in Android, you have to use :

(a) Eclipse

(b) Java and XML

(c) Java and SQL

(d) Java and PL/sql

67. Android provides a few standard themes, listed in :

(a) R.style

(b) X.style

(c) Manifest.XML

(d) Application

68. What is an anonymous class in android ?

(a) Interface class



- (b) A class that does not have a name but have functionalities in it
- (c) Java class
- (d) None of these

69. What is an activity in Android ?

- (a) Activity performs the actions on the screen
- (b) Manage the application content
- (c) Screen UI
- (d) None of these

70. What was Google's main business motivation for supporting Android ?

- (a) To level the playing field for mobile devices
- (b) To directly compete with the iPhone
- (c) To corner the mobile device application market for licensing purposes
- (d) To allow them to advertise more

71. As an Android programmer, what version of Android should you use as your minimum development target ?

- (a) Versions 1.6 or 2.0



- (b) Versions 1.0 or 1.1
- (c) Versions 1.2 or 1.3
- (d) Versions 2.3 or 3.0

72. From a phone manufacture's point of view, what makes Android so great ?

- (a) Aside from some specific drivers, it provides everything to make a phone work
- (b) It makes the hardware work better
- (c) It allows them to compete with Apple's iPhone
- (d) It allows users to create apps, generating revenue for the companies

73. What year was the Open Handset Alliance Announced ?

- (a) 2005
- (b) 2006
- (c) 2007
- (d) 2008

74. Android tries hard to \_\_\_\_\_ low-level components, such as the software stack, with



interfaces so that vendor-specific code can be managed easily.

- (a) Confound
- (b) Absract
- (c) Modularize
- (d) Compound

75. What part of the Android platform is open source ?

- (a) Low-level Linux modules
- (b) All of these answers #The entire stack is an open source platform
- (c) Native libraries
- (d) Application framework

76. When did Google purchase Android ?

- (a) 2007
- (b) 2005
- (c) 2008
- (d) 2010

77. Which one is not a nickname of a version of Andriod ?

- (a) Cupcake



- (b) Gingerbread
- (c) Honeycomb
- (d) Muffin

78. Which among these are NOT a part of Android's native libraries ?

- (a) Webkit
- (b) Dalvik
- (c) OpenGL
- (d) SQLite

79. Android is based on Linux for the following reason :

- (a) Security
- (b) Portability
- (c) Networking
- (d) All of these

80. What operating system is used as the base of the Android stack ?

- (a) Linux
- (b) Windows



(c) Java

(d) XML

81. When developing for the Android OS, Java byte code is compiled into what ?

(a) Java source code

(b) Dalvik application code

(c) Dalvik byte code

(d) C source code

82. Android Applications must be signed :

(a) After they are installed

(b) Before they are installed

(c) Never

(d) Within two weeks of installation

83. What is contained within the Layout xml file ?

(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.



\*84. The emulated device for android :

- (a) Runs the same code base as the actual device, all the way down to the machine layer.
- (b) Is more of a simulator, and acts as a virtual machine for the Android device.
- (c) Runs the same code base as the actual device, however at a higher level.
- (d) An imaginary machine built on the hopes and dreams of baby elephants.

85. How is a simulator different from an emulator ?

- (a) Emulators are only used to play old SNES games, simulators are used for software development
- (b) The emulator is shipped with the Android SDK and third party simulators are not
- (c) The emulator can virtualize sensors and other hardware features, while the simulator cannot
- (d) The emulator imitates the machine executing the finary code, rathor than simulating the behavior of the code at a higher level



86. To create an emulator, you need an AV. What does it stand for ?

- (a) Android Virtual Display
- (b) Android Virtual Device
- (c) Active Virtual Device
- (d) Application Virtual Display

87. What is the driving force behind an Android application and that ultimately gets converted into a Dalvik executable ?

- (a) Java source code
- (b) R-file
- (c) The emulator
- (d) The SDK

88. What part of the Android platform is open source ?

- (a) Low-level Linux modules
- (b) All of these answers #The entire stack is an open source platform
- (c) Native libraries
- (d) Application framework



89. Which piece of code used in Android is not open source ?

- (a) Keypad driver
- (b) WiFi? driver
- (c) Audio driver
- (d) Power management

90. What are commands needed to create APK in android ?

- (a) No need to write any commands
- (b) Create apk\_android in command line
- (c) Javac, dxttool, aapt tool, jarsigner tool, and zipalign
- (d) None of these

91. Which is the latest mobile version of android ?

- (a) 3.0
- (b) 2.3
- (c) 2.6
- (d) 12.0

92. Which of the following don't have any UI component and run as a background process ?

- (a) Services



- (b) Simulator
  - (c) Emulator
  - (d) None of these
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  - (d) None of these
95. What are return types of startActivityForResult() in android ? A - RESULT\_OK
- (a) RESULT\_CANCEL
  - (b) RESULT\_CRASH
  - (c) A and B
  - (d) Difference between onCreate() and onStart() ?



96. Difference between onCreate() and onStart() ?

- (a) The onCreate() method is called once during the Activity lifecycle, either when the application starts, or when the Activity has been destroyed and then recreated, for example during a configuration change.
- (b) The onStart() method is called whenever the Activity becomes visible to the user, typically after onCreate() or onRestart()
- (c) Boths correct
- (d) Both incorrect

97. Android releases since 1.5 have been given nicknames derived how ?

- (a) Adjective and strange animal
- (b) Food
- (c) Something that starts w/'A' → Something that starts w/'B'....
- (d) American states

98. Which of the following is most "resource hungry" part of dealing with Activities on Android ?

- (a) Closing an app



- (b) Suspending an app
- (c) Opening a new app
- (d) Restoring the most recent app

99. Broadcast receivers are Android's implementation of a system-wide publish/subscribe mechanism, or more precisely, what design pattern ?

- (a) Observer
- (b) Mediator
- (c) Command
- (d) Facade

100. The android OS comes with many useful system services, which include processes you can easily ask for things such as your :

- (a) All of these and more
- (b) Location
- (c) Sensor Readings
- (d) WiFi ? Hot Spots



SQ – 114/8 (150)

( 32 )

End Sem(III) — IT  
(SEC – 1) D