III BCA
Mobile Application Development
(U23CA6E3A)

1. Android is based on which kernel?
   a) Windows
   b) Linux
   c) Unix
   d) Mac
   Answer: b) Linux

2. Which company developed Android?
   a) Apple
   b) Microsoft
   c) Google
   d) IBM
   Answer: c) Google

3. Android applications are mainly written in
   a) C
   b) C++
   c) Java
   d) Python
   Answer: c) Java

4. The Android Runtime (ART) replaces
   a) JVM
   b) Dalvik
   c) SDK
   d) AVD
   Answer: b) Dalvik

5. Which file contains the essential information about an Android app?
   a) Main.java
   b) activity_main.xml
   c) AndroidManifest.xml
   d) build.gradle
   Answer: c) AndroidManifest.xml

6. Android Studio is mainly used for
   a) Testing only
   b) UI design only
   c) Android app development
   d) Database creation
   Answer: c) Android app development

7. AVD stands for
   a) Android Virtual Device
   b) Android Version Device
   c) Application Virtual Device
   d) Android Visual Design
   Answer: a) Android Virtual Device

8. Which layer manages hardware resources in Android architecture?
    a) Application Layer
    b) Libraries
    c) Linux Kernel
    d) Runtime
    Answer: c) Linux Kernel

9. APK stands for
    a) Android Program Kit
    b) Android Package Kit
    c) Application Package Kernel
    d) Android Phone Kit
    Answer: b) Android Package Kit

10. Which component represents a single screen in Android?
    a) Service
    b) Broadcast Receiver
    c) Activity
    d) Content Provider
    Answer: c) Activity

11. Which tool is used to debug Android applications?
    a) Emulator
    b) Logcat
    c) SDK Manager
    d) AVD
    Answer: b) Logcat

12. Which folder contains XML layout files?
    a) src
    b) java
    c) res/layout
    d) assets
    Answer: c) res/layout

13. Which layout arranges components in a single row or column?
    a) Relative Layout
    b) Frame Layout
    c) Linear Layout
    d) Scroll View
    Answer: c) Linear Layout

14. RelativeLayout positions views relative to
    a) Screen size
    b) Parent or other views
    c) Orientation
    d) Pixels
    Answer: b) Parent or other views

15. Which view is used to display text?
    a) Button
    b) EditText
    c) TextView
    d) ImageButton
    Answer: c) TextView

16. Which view allows user input?
    a) TextView
    b) EditText
    c) ImageView
    d) ProgressBar
    Answer: b) EditText

17. CheckBox allows
    a) Single selection
    b) Multiple selection
    c) No selection
    d) Auto selection
    Answer: b) Multiple selection

18. RadioButton is used with
    a) CheckBox
    b) Spinner
    c) RadioGroup
    d) ListView
    Answer: c) RadioGroup

19. Which view displays a scrolling list of items?
    a) GridView
    b) ListView
    c) TextView
    d) WebView
    Answer: b) ListView

20. Web content is displayed using
    a) ListView
    b) ImageView
    c) WebView
    d) ScrollView
    Answer: c) WebView

21. ScrollView is used to
    a) Align views
    b) Scroll content vertically
    c) Show images
    d) Display text
    Answer: b) Scroll content vertically

22. ProgressBar is used to show
    a) Text
    b) Image
    c) Progress of a task
    d) List
    Answer: c) Progress of a task

23. AutoCompleteTextView provides
    a) Full text
    b) Auto suggestions
    c) Radio options
    d) Password input
    Answer: b) Auto suggestions

24. Screen orientation changes are managed using
    a) LayoutInflater
    b) AndroidManifest.xml
    c) Emulator
    d) SDK
    Answer: b) AndroidManifest.xml

25. SharedPreferences is used to store
    a) Images
    b) Large files
    c) Small key-value pairs
    d) Videos
    Answer: c) Small key-value pairs

26. Which storage is private to the application?
    a) External Storage
    b) Internal Storage
    c) Cloud Storage
    d) SD Card
    Answer: b) Internal Storage

27. Which permission is required for external storage?
    a) INTERNET
    b) LOCATION
    c) READ/WRITE_EXTERNAL_STORAGE
    d) SMS
    Answer: c) READ/WRITE_EXTERNAL_STORAGE

28. SQLite is a
    a) Server database
    b) Cloud database
    c) Embedded database
    d) Network database
    Answer: c) Embedded database

29. SQLite database stores data in the form of
    a) Objects
    b) Files
    c) Tables
    d) Lists
    Answer: c) Tables

30. Which method is used to insert data in SQLite?
    a) select()
    b) insert()
    c) update()
    d) delete()
    Answer: b) insert()

31. Cursor is used to
    a) Store database
    b) Navigate records
    c) Delete records
    d) Update tables
    Answer: b) Navigate records

32. Which method retrieves data from SQLite?
    a) insert()
    b) update()
    c) query()
    d) drop()
    Answer: c) query()

33. Which method updates records in SQLite?
    a) modify()
    b) update()
    c) alter()
    d) change()
    Answer: b) update()

34. File handling is mainly used to
    a) Store UI
    b) Store user data
    c) Design layout
    d) Debug apps
    Answer: b) Store user data

35. External storage is
    a) Always private
    b) Accessible by all apps
    c) Not accessible
    d) Deleted automatically
    Answer: b) Accessible by all apps

36. SQLiteOpenHelper is used to
    a) Create UI
    b) Manage database creation and versioning
    c) Send SMS
    d) Access internet
    Answer: b) Manage database creation and versioning

37. Which class is used to send SMS?
    a) SmsManager
    b) MessageManager
    c) TextManager
    d) SendManager
    Answer: a) SmsManager

38. Permission required to send SMS is
    a) INTERNET
    b) SEND_SMS
    c) RECEIVE_SMS
    d) READ_SMS
    Answer: b) SEND_SMS

39. Incoming SMS messages are handled using
    a) Activity
    b) Service
    c) Broadcast Receiver
    d) Content Provider
    Answer: c) Broadcast Receiver

40. Email sending in Android requires
    a) Bluetooth
    b) SMS permission
    c) Intent
    d) Database
    Answer: c) Intent

41. Binary data refers to
    a) Text only
    b) Image, audio, video files
    c) Numbers
    d) Strings
    Answer: b) Image, audio, video files

42. Networking in Android mainly uses
    a) HTTP
    b) FTP
    c) SMTP
    d) SNMP
    Answer: a) HTTP

43. Which permission is required for networking?
    a) ACCESS_WIFI
    b) INTERNET
    c) BLUETOOTH
    d) NETWORK_STATE
    Answer: b) INTERNET

44. Downloading text files uses
    a) SQLite
    b) File System
    c) InputStream
    d) SharedPreferences
    Answer: c) InputStream

45. SMS messages are limited to
    a) 100 characters
    b) 120 characters
    c) 160 characters
    d) 200 characters
    Answer: c) 160 characters

46. Email sending uses
    a) SmsManager
    b) Intent.ACTION_SEND
    c) Broadcast Receiver
    d) SQLite
    Answer: b) Intent.ACTION_SEND

47. Which component runs in background for long tasks?
    a) Activity
    b) Broadcast Receiver
    c) Service
    d) Fragment
    Answer: c) Service

48. Networking operations should be performed in
    a) Main thread
    b) UI thread
    c) Background thread
    d) Layout thread
    Answer: c) Background thread

49. GPS is used to get
    a) Internet
    b) Location
    c) SMS
    d) Files
    Answer: b) Location

50. Google Maps API is used for
    a) Database
    b) Messaging
    c) Displaying maps
    d) UI design
    Answer: c) Displaying maps

51. Zoom controls are used to
    a) Change color
    b) Resize text
    c) Zoom in/out map
    d) Add marker
    Answer: c) Zoom in/out map

52. Marker is used to
    a) Delete location
    b) Highlight a location
    c) Zoom screen
    d) Change view
    Answer: b) Highlight a location

53. Geo-coding converts
    a) Coordinates to address
    b) Image to text
    c) Text to audio
    d) Data to file
    Answer: a) Coordinates to address

54. LocationManager is used to
    a) Manage database
    b) Manage UI
    c) Access location services
    d) Send SMS
    Answer: c) Access location services

55. Permission required for location is
    a) INTERNET
    b) ACCESS_FINE_LOCATION
    c) SEND_SMS
    d) CAMERA
    Answer: b) ACCESS_FINE_LOCATION

56. Map view type can be changed to
    a) Normal, Satellite, Terrain
    b) Linear, Relative
    c) Text, Image
    d) Binary, Text
    Answer: a) Normal, Satellite, Terrain

57. APK file is used for
    a) Development
    b) Testing
    c) Publishing app
    d) Debugging
    Answer: c) Publishing app

58. Google Play Store is used to
    a) Develop apps
    b) Publish apps
    c) Debug apps
    d) Design UI
    Answer: b) Publish apps

59. Signing APK is required for
    a) Testing only
    b) Publishing
    c) Coding
    d) Layout design
    Answer: b) Publishing

60. Deployment means
    a) Writing code
    b) Testing app
    c) Releasing app to users
    d) Designing UI
    Answer: c) Releasing app to users