IT- 31 Mobile Application Development

1. Which of the following best describes the primary goal of mobile application technologies?

a) To enhance desktop software

b) To provide web-based services only

c) To enable software development for mobile devices

d) To replace traditional software development

Answer: c) To enable software development for mobile devices

2. Which component of Android is responsible for managing the application lifecycle?

a) Activity

b) Fragment

c) Service

d) Broadcast Receiver

Answer: a) Activity

3. Which programming language is primarily used for iOS app development?

a) Java

b) Swift

c) C++

d) Python

Answer: b) Swift

4. Which of the following is a characteristic of Windows Mobile architecture?

a) Uses Linux kernel

b) Primarily supports Java applications

c) Closed-source operating system

d) Limited customization options

Answer: c) Closed-source operating system

5. What is the main advantage of hybrid mobile app development?

a) Better performance compared to native apps

b) Easier access to device features

c) Code reusability across multiple platforms

d) Native look and feel

Answer: c) Code reusability across multiple platforms

6. Which tool is commonly used to create new Android projects?

a) Android Studio

b) Eclipse

c) IntelliJ IDEA

d) Visual Studio

Answer: a) Android Studio

7. In an Android project, where are resources like layout files and images typically stored?

a) /src directory

b) /gen directory

c) /res directory

d) /assets directory

Answer: c) /res directory

8. Which method is called when an activity is first created?

a) onStart()

b) onCreate()

c) onResume()

d) onRestart()

Answer: b) onCreate()

9. Which of the following is true about fragments in Android?

a) Fragments cannot exist without an activity

b) Fragments have their own lifecycle independent of the activity

c) Fragments cannot be added dynamically to an activity

d) Fragments are always visible on the screen

Answer: a) Fragments cannot exist without an activity

10. Which layout is typically used to arrange elements vertically or horizontally in Android?

a) RelativeLayout

b) LinearLayout

c) FrameLayout

d) ConstraintLayout

Answer: b) LinearLayout

11. What is the purpose of an Intent in Android?

a) To display notifications

b) To launch activities or services

c) To perform background tasks

d) To handle database operations

Answer: b) To launch activities or services

12. Which adapter is used to bind data to a ListView in Android?

a) ArrayAdapter

b) RecyclerViewAdapter

c) BaseAdapter

d) CursorAdapter

Answer: a) ArrayAdapter

13. Which of the following is not a type of dialog in Android?

a) AlertDialog

b) ProgressDialog

c) DatePickerDialog

d) FormDialog

Answer: d) FormDialog

14. Which method is used to inflate the menu resource in Android?

a) onCreateOptionsMenu()

b) onOptionsItemSelected()

c) onPrepareOptionsMenu()

d) inflateMenu()

Answer: a) onCreateOptionsMenu()

15. Which component is responsible for displaying notifications to the user in Android?

a) NotificationManager

b) NotificationReceiver

c) NotificationService

d) NotificationBuilder

Answer: a) NotificationManager

16. Which of the following is a NoSQL database commonly used with mobile applications?

a) SQLite

b) MySQL

c) Firebase Realtime Database

d) PostgreSQL

Answer: c) Firebase Realtime Database

17. In Android, which class is used to perform database operations?

a) SQLiteDatabase

b) CursorAdapter

c) SQLiteOpenHelper

d) ContentValues

Answer: a) SQLiteDatabase

18. Which operation is not a part of CRUD operations in database management?

a) Create

b) Read

c) Update

d) Define

Answer: d) Define

19. Which protocol is commonly used for communication between a mobile app and a web server?

a) FTP

b) HTTP

c) SMTP

d) TCP

Answer: b) HTTP

20. Which data format is commonly used to transmit data between a web server and a mobile app?

a) HTML

b) XML

c) CSV

d) TXT

Answer: b) XML

21. Which library is commonly used in Android to parse JSON data?

a) Gson

b) Jackson

c) Retrofit

d) Volley

Answer: a) Gson

22. What does the WebView component allow you to do in a mobile app?

a) Display web pages within the app

b) Send HTTP requests

c) Create dynamic layouts

d) Manage database operations

Answer: a) Display web pages within the app

23. What is React Native primarily used for?

a) Web development

b) Mobile app development

c) Desktop application development

d) Game development

Answer: b) Mobile app development

24. Which package manager is commonly used with React Native?

a) npm

b) pip

c) yarn

d) apt

Answer: a) npm

25. Which ES6 feature allows for defining variables that cannot be reassigned?

a) let

b) const

c) var

d) static

Answer: b) const

26. Which command is used to create a new React Native project?

a) create-react-app

b) react-native init

c) npm start

d) yarn create

Answer: b) react-native init

27. Which method is used to display an alert in React Native?

a) alert()

b) showDialog()

c) showModal()

d) showAlert()

Answer: a) alert()

28. Which API is used to access the device's geolocation in React Native?

a) Geolocation

b) Location

c) GPS

d) Map

Answer: a) Geolocation

29. Which platform is commonly used to distribute third-party React Native libraries?

a) npm

b) GitHub

c) Google Play Store

d) Apple App Store

Answer: a) npm

30. Which programming language is primarily used for Flutter app development?

a) Java

b) Swift

c) Kotlin

d) Dart

Answer: d) Dart

31. Which command is used to install Flutter?

a) flutter install

b) npm install flutter

c) brew install flutter

d) pip install flutter

Answer: c) brew install flutter

32. What is the primary rendering engine used by Flutter?

a) UIKit

b) Android Views

c) Skia

d) Cocoa

Answer: c) Skia

33. Which of the following is not a data type in Dart?

a) String

b) List

c) Tuple

d) Map

Answer: c) Tuple

34. What command is used to create a new Flutter project?

a) flutter new

b) flutter create

c) flutter start

d) flutter init

Answer: b) flutter create