



Title: 250 MCQs with Answers on Flutter and Firebase

[Previous 200 questions remain unchanged]

BONUS SECTION: ADVANCED + ARCHITECTURAL + TESTING (Q201-Q250)

Q201. What is the use of `firebase_options.dart` in Flutter? A. To configure analytics
B. Auto-generated Firebase settings ✓
C. Remote config values
D. App theming

Q202. Which method sets Firebase for web support in Flutter? A. `FirebaseWeb.setup()`
B. `Firebase.initializeWebApp()`
C. `Firebase.initializeApp()` ✓
D. `initWebFirebase()`

Q203. What does `firebase login` do in Firebase CLI? A. Initializes a new app
B. Authenticates CLI access to Firebase ✓
C. Creates database
D. Links Android Studio

Q204. What is the purpose of `firebase deploy`? A. To build the app
B. Deploy Firebase services to production ✓
C. Install FlutterFire plugins
D. Push analytics events

Q205. FlutterFire CLI is used to: A. Launch web app
B. Connect Firebase to Flutter project ✓
C. Deploy Android builds
D. Test Firestore queries

Q206. How can you test Firebase Auth in an emulator? A. Firebase Auth doesn't work in emulators
B. Use Firebase Auth Emulator ✓
C. Enable offline mode
D. Use fake login data

Q207. Best way to organize Firebase code in large Flutter apps: A. Inline in widgets
B. In providers or blocs ✓

- C. Random files
- D. FirebaseView.dart

Q208. What is the purpose of `firebase logout`? A. Remove user account
B. Stop the database
C. Sign out from Firebase CLI ✓
D. Disconnect app from Firebase

Q209. How do you simulate push notifications locally? A. `FirebaseTest.push()`
B. Firebase CLI with Emulator Suite ✓
C. Remote testing
D. `Flutter test_notify`

Q210. Which Flutter widget is used to listen for Firebase Auth changes? A. `StreamListener`
B. `AuthBuilder`
C. `StreamBuilder` ✓
D. `FirebaseWatcher`

Q211. What data format does Firestore export use? A. CSV
B. JSON
C. Protocol Buffers ✓
D. XML

Q212. What's a good strategy for versioning Firebase rules? A. Store in `main.dart`
B. Document in README
C. Use Git with `firestore.rules` ✓
D. Update directly in console

Q213. Firebase CLI tool is written in: A. Dart
B. Java
C. Node.js ✓
D. Python

Q214. Which platform supports App Check natively? A. Android
B. iOS
C. Web
D. All of the above ✓

Q215. Which Firebase component helps secure backend APIs? A. App Check ✓
B. Auth
C. Firestore
D. Storage

Q216. To deploy only Firebase Functions, use: A. `firebase push functions`
B. `firebase deploy --only functions` ✓

- C. deployFirebaseFunctions
- D. firebase deployAll

Q217. What's the purpose of FlutterFire plugins? A. Compile Java code
B. Add Firebase support to Flutter ✓
C. Build for iOS
D. Encrypt storage

Q218. How to reduce Firestore costs? A. Use larger documents
B. Denormalize everything
C. Use queries with limit() ✓
D. Avoid indexing

Q219. Which method signs in anonymously in Firebase? A. signInAnon()
B. FirebaseAuth.signInAnonymous()
C. FirebaseAuth.instance.signInAnonymously() ✓
D. loginAnonymously()

Q220. Best practice for storing images in Firebase: A. Firestore blob field
B. Firebase Storage ✓
C. Firebase Auth
D. App directory

Q221. How can you trigger a Cloud Function on file upload? A. functions.fileUploadTrigger
B. functions.storage.object().onFinalize() ✓
C. onUploadTrigger
D. fileUploadHandler

Q222. What is the use of `.indexOn` in Firebase RTDB? A. Track login attempts
B. Add database indexing ✓
C. Log out users
D. Secure access

Q223. How do you listen for analytics events in Flutter? A. firebase_tracker.listen()
B. FirebaseAnalyticsObserver ✓
C. EventBuilder
D. AnalyticsWatcher

Q224. Firebase Remote Config defaults are set: A. In console
B. In firestore.rules
C. In your Flutter app code ✓
D. In firebase.json

Q225. What is a good use case for Firebase Remote Config? A. Store passwords
B. Push media

- C. Control app behavior remotely ✓
- D. Change widget tree

Q226. Can Firebase Functions access Realtime Database? A. No

- B. Yes ✓
- C. Only Firestore
- D. Only with premium plan

Q227. When to use Firebase Hosting over Firebase Storage? A. Hosting is faster

- B. Hosting supports public site deployment ✓
- C. Hosting is cheaper
- D. Hosting handles analytics better

Q228. Firebase supports push notifications via: A. Cloud Firestore

- B. FCM ✓
- C. Firebase Hosting
- D. Firebase Tracker

Q229. Best approach for environment-specific Firebase config: A. Separate Flutter projects

- B. `firebase_options.dart` with flavors ✓
- C. Hardcoded variables
- D. Edit `firebase.json` manually

Q230. What tool can you use to monitor function execution performance? A. Firebase Tracker

- B. Firebase Logs
- C. Firebase Console Logs ✓
- D. Dart Profiler

Q231. Flutter Web requires what for Firebase integration? A. Dart-only Firebase SDK

- B. JavaScript interop ✓
- C. Firebase install
- D. `firebase_core_cli`

Q232. What is the purpose of `firebase.json`? A. Logs for database

- B. Hosting configuration ✓
- C. Auth rules
- D. CLI auth

Q233. Recommended way to secure Firebase API keys: A. Obfuscate in code

- B. Rotate frequently
- C. Use App Check and restrict access ✓
- D. Don't store them

Q234. What does `firebase init functions` do? A. Starts Firestore

- B. Adds Cloud Functions folder ✓

- C. Triggers deploy
- D. Creates emulator

Q235. Firestore supports which query types? A. Full SQL

- B. No filters
- C. Composite and range queries ✓
- D. Nested joins

Q236. What method deletes a document in Firestore? A. remove()

- B. deleteDoc()
- C. docRef.delete() ✓
- D. destroy()

Q237. Which feature allows limiting Firebase access based on platform? A. FirebaseAuth

- B. App Check ✓
- C. Firestore rules only
- D. Platform Guard

Q238. What's the extension of Firestore rules file? A. .txt

- B. .json
- C. .rules ✓
- D. .fs

Q239. Which of these is **not** a Firebase-supported sign-in method? A. GitHub

- B. Twitter
- C. Telegram ✓
- D. Apple

Q240. What plugin is used to manage Firebase Remote Config in Flutter? A. remote_config

- B. firebase_remote_config ✓
- C. firebase_config
- D. flutter_config

Q241. Flutter plugin for Firebase Analytics: A. analytics_flutter

- B. firebase_analytics ✓
- C. analytics_core
- D. firebase_stats

Q242. How to restrict Firestore reads to authenticated users? A. Check user in Flutter code

- B. Use Firestore rules ✓
- C. Use password filter
- D. Use analytics

Q243. How can you initialize Firebase before app runs? A. main() async with WidgetsFlutterBinding.ensureInitialized() ✓

- B. `initApp()`
- C. `runFirebaseApp()`
- D. `beforeRun()`

Q244. Which Firebase service allows versioning and rollback? A. Firestore

- B. Hosting ✓
- C. Functions
- D. Auth

Q245. Firebase Analytics supports which types of events? A. Predefined and custom ✓

- B. Custom only
- C. Built-in only
- D. Crash events only

Q246. What happens if Firebase is not initialized in Flutter? A. App runs slower

- B. Errors at compile-time
- C. Runtime error ✓
- D. Nothing

Q247. Firebase supports multi-tenancy via: A. Firebase Hosting

- B. Firebase Auth with tenants ✓
- C. Firestore collections
- D. Sub-projects

Q248. Which CLI command adds Firestore to your project? A. `firebase setup firestore`

- B. `firebase enable firestore`
- C. `firebase init firestore` ✓
- D. `firebase add db`

Q249. How can you backup Firestore manually? A. Use export in console or Firebase CLI ✓

- B. Firebase doesn't support it
- C. Save JSON copy locally
- D. Copy collections via code

Q250. How do you test Firebase messaging in Flutter? A. `fcmTest()`

- B. Emulator with `firebase_messaging` ✓
- C. Push plugin
- D. Send via Auth

Total: 250 MCQs now complete. Let me know if you want to export this as a **PDF** or generate topic-specific quizzes.