

**RAN-2611000906022003****T.Y.B.C.A. (Sem.- VI) Examination February - 2026****Major-2: Advance Mobile Application Development (Theory)****સૂચના : / Instructions**

- (1) ઉપરોક્ત દશવિધ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figures to the right indicate full marks.

Seat No.:

     

Student's Signature

**Q.1. (A) Answer the following MCQ. (Any 4)****[4]**

- [1] Which platform does Firebase Authentication support?  
A. Android B. iOS  
C. Web D. All of the above
- [2] What is Firebase Authentication primarily used for?  
A. Database management  
B. User authentication and authorization  
C. File storage  
D. Hosting web applications
- [3] Which method is used to sign out a user in Firebase Authentication?  
A. logout() B. signOut()  
C. exitUser() D. removeAuth()
- [4] Which option must be enabled in Firebase Console to use email/password authentication?  
A. Google Sign-In B. Email/Password Provider  
C. Anonymous Provider D. Phone Provider
- [5] Which HTTP method is used to retrieve data from a web service?  
A. POST B. PUT  
C. DELETE D. GET
- [6] JSON is mainly used for:  
A. UI designing B. Data storage  
C. Data interchange D. App compilation

**Q.1. (B) Answer the following in short (Any 4)****[4]**

- What is Firebase Console?
- What is FirebaseAuth?
- What is JSON tree structure?
- What is Value Event Listener?
- What is Web Service?

**Q.2. Answer in detail****[9]**

- [A] What is Firebase? Explain services of Firebase in details.

**[5]****OR**

- [A] Explain the complete FirebaseUI Authentication workflow for an Android application.

**[5]**

[B] Discuss Google Sign-In authentication in Firebase with configuration steps. [4]

**Q.3. Write a note on following (Any 2)** [08]

1. What is NoSQL databases? Explain types of NoSQL databases.
  2. Explain any two CRUD operation on firebase dataset
  3. What is API? Explain API in details.
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