# Back-End and Database Development – Marking Guide

01. Which of the following is a backend programming language?  
Answer: B) Python  
Marks: 4

02. DBMS helps manage a database efficiently.  
Answer: True  
Marks: 4

03. Which of the following is an example of a NoSQL database?  
Answer: B) MongoDB  
Marks: 4

04. Which of the following is NOT a type of SQL query?  
Answer: C) POST  
Marks: 4

05. HTTP method used to create a new resource?  
Answer: A) POST  
Marks: 4

06. Primary function of a backend server?  
Answer: B) Processing business logic and handling data requests  
Marks: 4

07. Match the backend tools:  
Answer: 1-D) API – Communication method  
2-C) SQL Database – Structured queries  
3-A) Express.js – Node.js framework  
4-B) MongoDB – NoSQL database  
Marks: 8

08. Method to create a user in Node.js RESTful API?  
Answer: B) app.post('/users', function(req, res) {})  
Marks: 4

09. SQL command to fetch all records from users table?  
Answer: A) SELECT \* FROM users  
Marks: 5

10. Connect to PostgreSQL in Python?  
Answer: B) Using the psycopg2 library  
Marks: 5

11. SQL command to update a record?  
Answer: B) UPDATE  
Marks: 5

12. First step if queries are slow?  
Answer: C) The database index usage  
Marks: 5

13. Backend API request not parsed correctly – check?  
Answer: B) Validate the request headers  
Marks: 5

14. Bottleneck during peak traffic – improve performance?  
Answer: A) Increase the number of database replicas  
Marks: 5

15. What does array\_merge() do?  
Answer: c) Combines two or more arrays  
Marks: 5

16. Declare a static method in PHP?  
Answer: b) public static function methodName() { ... }  
Marks: 5

17. Key advantage of stored procedures?  
Answer: C) Encapsulation of business logic and reduced code duplication  
Marks: 5

18. Tool to embed native Android/iOS in Flutter?  
Answer: A) Platform Channels  
Marks: 5

19. Most critical factor when choosing SQL vs NoSQL?  
Answer: A) The data structure and relationships between entities  
Marks: 5

20. Correct route to update user profile in Node.js?  
Answer: A) app.put('/users/:id', (req, res) => {  
 const userId = req.params.id;  
 res.send('User profile updated');  
});  
Marks: 5

21. Relationship between posts and comments?  
Answer: B) One-to-Many  
Marks: 4