

April 2018

Time – Three hours
(Maximum Marks: 75)

*[N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.
Answer any FOUR questions from the remaining in each PART – A
and PART – B*

(2) Answer division (a) or division (b) of each question in PART – C.

*(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and
10 marks in PART – C.]*

PART – A

1. List down any two characteristics of the database.
2. What are hybrid database?
3. Give the syntax of USE command.
4. What is an aggregate function?
5. What is a natural join?
6. What is a MySQL storage engine?
7. List down the various API's of MySQL.
8. List down the differences between MySQL and NoSQL.

PART – B

9. What is the difference between SQL and MySQL?
10. Discuss about pattern matching in MySQL.
11. Give the syntax for iterate command.
12. What is a sequence? Give the syntax for creating a sequence.
13. What is a transaction? With example explain the syntax of a grant command.
14. Explain briefly about amazon simple DB.
15. Explain about the various advantages of data mixing.
16. What is query optimization? Give the syntax for EXPLAIN command.

PART – C

17. (a) (i) Explain the hierarchical database model with example.
(ii) Write short notes on backup and recovery.
(Or)
- (b) What is normalization? Explain the three normal forms with example.
18. (a) (i) Explain briefly about the various methods of accessing MySQL.
(ii) Explain CASE structure with example.
(Or)
- (b) Explain the various MySQL commands used for creating, selecting and backup databases with example.
19. (a) (i) Explain the various types of keys used in MySQL.
(ii) What is a view? How will you create, update and delete views.
(Or)
- (b) (i) What is indexing? What are the different types of indexing?
(ii) What is a join? Explain natural join and self join with example.
20. (a) (i) What is a MySQL storage engine? Explain briefly about the different types of storage engines.
(ii) What is a trigger? Explain trigger creation with example.
(Or)
- (b) Explain in detail about creating, invoking and dropping procedures with example.
21. (a) (i) What is data warehousing? What are the various functions of a data warehouse.
(ii) Explain briefly about column oriented data store and graph store.
(Or)
- (b) (i) Explain in brief, the various data mining concepts.
(ii) Briefly explain how NoSQL is used in the cloud.
