

# E-6031

## M.Sc. (III<sup>rd</sup> Semester) Examination, 2021 INFORMATION TECHNOLOGY

(MySQL and SQLite)

*Time Allowed : Three Hours*

*Maximum Marks : 70*

### SECTION - A

**Note :** Attempt any ten questions. Each question carries one mark. **1×10=10**

**Q. 1.** Objective type questions :

- (i) SQLite does not support \_\_\_\_\_.  
(a) File based  
(b) Stored procedures  
(c) Server based  
(d) None of above
- (ii) SQLite is written in \_\_\_\_\_ language :  
(a) ANSI - C  
(b) C++

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- (c) FORTRAN  
(d) JAVA
- (iii) \_\_\_\_\_ operator performs pattern matching :  
(a) LIKE  
(b) BETWEEN  
(c) EXISTS  
(d) None of above
- (iv) The datatype SMALLINT stores :  
(a) 8 bit  
(b) 16 bit  
(c) 32 bit  
(d) 48 bit
- (v) \_\_\_\_\_ clause specifies periodic execution at fixed intervals.  
(a) ALL  
(b) AT  
(c) EVERY  
(d) ALTERNATE

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- (vi) A stored procedure is invoked using the statement :
- (a) INVOKE
  - (b) RETURN
  - (c) SEE
  - (d) CALL
- (vii) The slow query log is written as :
- (a) Text
  - (b) Number
  - (c) Image
  - (d) Graph
- (viii) Which SQL keyword is used to sort the result set :
- (a) SORT
  - (b) SORTBY
  - (c) ORDER
  - (d) ORDERBY

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- (ix) Which of the following is not an aggregate function ?
- (a) With
  - (b) Avg
  - (c) Min
  - (d) Max
- (x) What is MySQL view ?
- (a) Static
  - (b) Virtual
  - (c) Real
  - (d) Temporary table
- (xi) Which of the following options tells MySQL to ask for entering the password ?
- (a) -e
  - (b) -p
  - (c) -u
  - (d) -h

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(xii) What is the maximum length for alias names

in terms of characters ?

- (a) 64
- (b) 32
- (c) 128
- (d) 256

**SECTION - B**

**(Very Short Answer Type Questions)**

**Note :** Attempt any five questions. Each question carries 2 marks. Maximum word limit 25-30 words. **2×5=10**

- Q. 2.**
- (i) What is Explore Environment ?
  - (ii) What is SQLite transactions ?
  - (iii) What is the use of SQLite group by clause ?
  - (iv) Explain the having clause in SELECT statements.
  - (v) Write about the MySQL.
  - (vi) What do you mean by nested queries ?
  - (vii) Explain the database connectivity.

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**P.T.O.**

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**SECTION - C**

**(Short Answer Type Questions)**

**Note :** Attempt any five questions. Each question carries 4 marks. Maximum word limit 250 words. **4×5=20**

- Q. 3.**
- (i) Explain the explore default schema in SQLite.
  - (ii) What is the export control classification number (eccn) for SQLite ?
  - (iii) Does SQLite support foreign keys ?
  - (iv) What is the maximum size of a varchar in SQLite ?
  - (v) What do you mean by triggers in SQL ?
  - (vi) Discuss about the advanced MySQL concept.
  - (vii) Explain any two MySQL DML commands with example.

**SECTION - D**

**(Essay Type Questions)**

**Note :** Attempt any three questions. Each question carries 10 marks. Maximum word limit 500 words. **10×3=30**

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- Q. 4.** (i) Discuss about the pros and cons of facility in SQLite.
- (ii) Explain the application programming interfaces in detail.
- (iii) What are all the common SQL function ?  
Explain the all functions.
- (iv) Explain the various types of join query with suitable example in MySQL.

