

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(Third Semester)

Branch – COMPUTER TECHNOLOGY

DATABASE MANAGEMENT SYSTEMS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Which type of data can be stored in the database?
(i) Image oriented data (ii) Text, files containing data
(iii) Data in the form of audio or video (iv) All of the above
- 2 How many Primary keys can have in a table?
(i) Only 1 (ii) Only 2
(iii) Depends on no of Columns (iv) Depends on DBA
- 3 A _____ is a SQL procedure that initiates an action when an events (INSERT,DELETE or UPDATES) occurs
(i) Triggers (ii) Views
(iii)Cursor (iv)Index
- 4 A record in MongoDB is a _____.
(i) Document (ii) Table
(iii)Application (iv)All the Above
- 5 In sql the functions avg, min, max, sum, count are called as
(i) Aggregated function (ii) adjacent function
(iii)set operations (iv) scalar operations

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Explain about Entity Relationship Diagram.
OR
b Bring out and explain the Architecture of Database.
- 7 a Explain data manipulation in database management systems.
OR
b Describe Logical operations.
- 8 a Narrate the execution in PL/SQL.
OR
b Describe storage procedures.
- 9 a Describe MongoshellDB shell.
OR
b How to insert and save document in Mongo DB?
- 10 a Explain Type specific quires.
OR
b Describe Full text indexes.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Discuss the purpose of Database.
OR
b Highlight the importance of normalization and classify its types .
- 12 a Enumerate pattern matching.
OR
b Discuss creation of reports.
- 13 a Identify the importance of functions in PL/SQL.
OR
b Summarize the performance of database triggers.
- 14 a Enumerate document and collection in Mongo DB
OR
b Discuss creating, updating and deleting documents in MongoDB.
- 15 a Justify indexing using reference table.
OR
b Show how does aggregation suits in database manipulations?

Z-Z-Z

END