

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**MSc DEGREE EXAMINATION DECEMBER 2018
(Third Semester)**

**Branch -SOFTWARE SYSTEMS
(Five year integrated)**

DATA BASE MANAGEMENT SYSTEM

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks (5 x 6 = 30)

- 1 a Discuss the advantages of DBMS.
OR
b Explain various symbols used in ER diagram with necessary example.
- 2 a Briefly explain the structure of B+tree.
OR
b Write short note on linear hashing.
- 3 a Give the role of DBA.
OR
b What is meant by cursor? Explain its types with example.
- 4 a Discuss briefly about normal forms.
OR
b Explain the properties of decomposition.
- 5 a What is meant by transaction? Explain with necessary example.
OR
b Discuss about concurrency control in DBMS.

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Draw and explain the structure of DBMS.
- 7 Explain simple-two way merge sort with example.
- 8 Write a detail note on nested queries and aggregate operations with relevant queries.
- 9 What is meant by functional dependencies? Explain with example.
- 10 Briefly explain about specialized locking techniques and its advantages.