

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

**MCA DEGREE EXAMINATION DECEMBER 2018  
(Second Semester)**

Branch - **COMPUTER APPLICATIONS**

**DATABASE 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 Explain the purpose of database system.  
OR  
b Write short notes on integrity constraints.
- 2 a Give a-brief note on operators and their types.  
OR  
b Write short notes on Embedded SQL.
- 3 a What do you mean by functional dependencies? Explain with example.  
OR  
b Write short notes on BCNF.
- 4 a Discuss about the need for concurrency control.  
OR  
b Summarize the concepts distributed databases.
- 5 a Write short notes on file organization.  
OR  
b Describe about static hashing.

**SECTION -B (45 Marks)**

Answer any **THREE** questions

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

- 6 Describe the concepts of E-R model in detail.
- 7 Summarize the concepts of Triggers an function.
- 8 List and explain the fundamental operations of relational algebra with suitable example.
- 9 Write in detailed note on transaction concepts with example.
- 10 Compare and contrast between extendible and linear hashing.