

Roll No.

Total No. of Questions : 09]

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B.Tech. (Sem. - 7th / 8th)

[Total No. of Pages : 02

DATABASE MANAGEMENT SYSTEMS

SUBJECT CODE : CS - 305

Paper ID : [A0440]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 x 2 = 20)

- a) What is role of storage structures in database management system?
- b) Explain the difference between a weak entity and a strong entity.
- c) What are non-procedural languages?
- d) What do understand by a heterogeneous distributed database?
- e) What are the foreign keys?
- f) What are ER diagrams?
- g) Define shadow paging.
- h) What are log records?
- i) What is data fragmentation?
- j) What is the role of security in normal forms?

Section - B

(4 x 5 = 20)

Q2) What are Triggers? Explain all types with SQL examples.

Q3) Write the SQL commands for Commit and Rollback. And also explain the role of stored procedures in database management system.

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- Q4)** Demonstrate the use of four character functions; LOWER, UPPER, INITCAP and LENGTH.
- Q5)** Write the SQL Commands for the following:
 Identify the syntax and uses of the %ISOPEN cursor attribute.
 Identify the syntax and uses of the %FOUND cursor attribute.
 Identify the syntax and uses of the %NOTFOUND cursor attribute.
 Identify the syntax and uses of the %ROWCOUNT cursor attribute.
- Q6)** What are Indexes, Package, Cursor and Views? Explain briefly with SQL examples.

Section - C

(2 x 10 = 20)

- Q7)** Construct an ER diagram for a hospital with a set of patients and a set of medical doctors. Associate with each patient a log of the various tests and examinations conducted.
- Q8)** The students passing in the various subjects are as follows:

Name	Math	Science	Languages	Total	Average	Result
P Jones	68	90	72	230	76.66	Pass
M Henry	95	92	80	267	89.00	Pass
J Man	29	67	41	137	45.66	Fail
A Bryan	45	60	71	176	58.66	Pass
W Fringe	77	82	64	223	74.33	Pass
A Lawson	55	76	67	198	66.00	Pass
B Marsh	59	52	41	152	50.66	Pass

Write the commands in SQL for the following:

- What is average Math Score?
 - List of students in the order of merit list.
 - List the students who have passed either in Math or Science.
 - What is maximum score in language?
 - How many students have passed?
- Q9)** What is normalization? Explain various types of normalizations with the help of suitable examples.