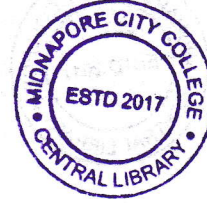


PG (CBCS)
M.SC. Semester- III Examination, 2023
COMPUTER SCIENCE
PAPER: COS 304 (CBCS)
(DBMS AND INTERNET TECHNOLOGY)



Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as far as practicable.

Write the answer for each unit in separate sheet

M1: DBMS

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
- a) What is an entity? Give examples.
 - b) What is Data Model? Give examples.
 - c) Name and briefly describe the five SQL built-in functions.
 - d) What is the difference between WHERE and Having Clause?

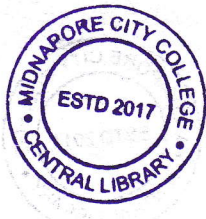
GROUP-B

2. Answer any **TWO** of the following questions: 2×4=8
- a) What is a weak entity type? Explain with a suitable example. 2+2
 - b) Explain with examples the terms Super key, Candidate key and Primary key. 4
 - c) Implement following relation using SQL query-
 Student (stud_no, stud_name, sub1, sub2, totalmark, percentage)
 Create the table, add 5 records and display the data. 4
 - d) Explain (Any one): a) Network Model b) Relational Model. 4

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
- a) Discuss the external view, internal view in three-tier database architecture. Describe the concepts of logical and physical data independence respect to these different schema layers. 5+3
 - b) Write short notes on following topics (any TWO): 2×4
 - i. ERD
 - ii. Join operation
 - iii. Foreign key
 - iv. DBA

P.T.O



M2: INTERNET TECHNOLOGY

GROUP-A

1. Answer any **TWO** of the following questions: 2×2=4
- a) What is the difference between <sup> and <sub>?
 - b) What do you mean by point-to-point connection?
 - c) Write down the application of internet.
 - d) What is the difference between Bluetooth and Wifi?

GROUP-B

2. Answer any **TWO** of the following questions: 2×4=8
- a) Write the difference between Routers and switches.
 - b) Differentiate OSI Model and TCP/IP Model. 4
 - c) Briefly explain the HTML heading.
 - d) Explain different classes of the classful addressing.

GROUP-C

3. Answer any **ONE** of the following questions: 1×8=8
- a) Write short notes on (any four): 2×4
SMTP, WWW, FTP, Gateway, Switch
 - b) Discuss the functions and uses of each layer of TCP/IP reference modul. 8
