

Roll No.

Total No. of Pages: 01

Total No. of Questions: 07

B.Sc (AIML), Semester-3rd
DATABASE MANAGEMENT SYSTEM

Subject Code: UGCA1922

M.Code: 90351

Date of Examination: 02-12-2025

Time: 3 Hrs.

Max. Marks:60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and student have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	List two disadvantages of hierarchical model.	CO1	L1
b.	Explain the importance of ER model.	CO1	L2
c.	Label SQL syntax for creating an index.	CO2	L1
d.	Compare DELETE and TRUNCATE.	CO2	L2
e.	What is a trigger? Give example.	CO1	L1
f.	Explain functional dependency with an example.	CO3	L2
g.	Define 1NF with an example.	CO3	L1
h.	Compare deadlock prevention and detection.	CO4	L2
i.	What is database integrity?	CO4	L1
j.	Compare 3NF and BCNF.	CO3	L2
SECTION-B			
2.	Simplify SQL queries to perform DDL operations for creating a "Student" table.	CO1	L3
3.	Explain the advantages of stored procedures over ad-hoc queries with examples	CO2	L5
4.	Organize the process of converting a relation into BCNF and identify the term redundancy removal through normalization.	CO3	L3
5.	Examine concurrency issues in multi-user environments. Analyze how deadlock is handled in DBMS	CO4	L4
6.	Explain partial dependency. Differentiate between partial, transitive, and trivial dependencies.	CO3	L4
7.	Explain three level architecture of distributed databases with diagram.	CO4	L5

NOTE: Disclosure of identity by writing mobile no. or making of passing request on any page of answer sheet will lead to UMC against the student.

Roll No.

Total No. of Pages: 01

Total No. of Questions: 07

B.Sc (AIML), Semester-3rd

Internet Tools and Applications

Subject Code: UGCA1959

M.Code: 90355

Date of Examination: 05-12-2025

Time: 3 Hrs.

Max. Marks:60

INSTRUCTIONS TO CANDIDATES:

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B consists of SIX questions, carrying TEN marks each and student have to attempt any FOUR questions.

Q. No.	Question	Course Outcome	Bloom's Level
SECTION-A			
1.	Answer briefly:		
a.	What does "WWW" stand for?	CO-1	L1
b.	Explain one disadvantage of chat groups.	CO-1	L2
c.	What is the difference between HTTP and FTP in one line?	CO-2	L1
d.	Outline the need of Internet protocols like TCP and IP?	CO-2	L2
e.	What is the format of an email address?	CO-3	L1
f.	Summarize why is the user agent important in the email architecture?	CO-3	L2
g.	Name any 2 servers help in working of DNS.	CO-4	L1
h.	Illustrate the advantage of using DNS over remembering IP addresses.	CO-4	L2
i.	List any two image formats commonly used in web pages.	CO-5	L1
j.	Explain the structure of a basic hyperlink in HTML.	CO-5	L2
SECTION-B			
2.	Identify how an organization can apply Internet facilities such as newsgroups and chat groups for internal communication and collaboration.	CO-1	L3
3.	Compare and analyze how TCP and IP together ensure reliable communication on the Internet.	CO-2	L4
4.	Evaluate the advantages and disadvantages of using Internet applications in daily life.	CO-3	L5
5.	Explain the use of fragment URLs and image maps together can enhance web navigation and user experience.	CO-4	L5
6.	Apply your knowledge of Absolute and Relative URLs to create a link from one web page to another.	CO-5	L3
7.	Analyze how table alignment and cell spacing attributes influence the layout and presentation of data.	CO-5	L4

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the student.

