BHARATI VIDYAPEETH
(DEEMED TO BE UNIVERSITY), PUNE - 30
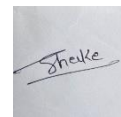

ANSWER SCRIPT COVER SHEET

Online Remote Proctored Descriptive and MCQ mode of University Examinations for Winter 2025

PRN:	2545100716
SEAT NUMBER:	2525691016
PROGRAMME NAME:	BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2023)
SUBJECT NAME:	DBMS-I
SEMESTER:	Sem-2
EXAM DATE:	11/01/2026
EXAM TIME:	11:00 AM 01:00 PM

Declaration: I have read the "Guidelines for Remote Proctored Online Descriptive and MCQ mode of examinations and I agree to abide by it". I have written the answers to the questions in the answer sheets and they are ___2___ pages in total. I take full responsibility for appearing for online remote proctored descriptive and MCQ Winter 2025 university examinations, scan/take photographs and upload the answer scripts in to the online system.

Shelke

10/01/2026
Signature and Date

(TO BE PRINTED OR HAND WRITTEN)

Details to be handwritten only

① Describe three tier achitacture of a database mangement system?

=) the three tier architecture of Presentition layar (user interface) Application layer (business logic and processing) and database layer (data stoffage and mangement it improve security scalability and data inden inbe independence ?

② Define a DBMS and explain its Role manding data within organation

→ A database mangement system (DBMS) is software that allow user to store retrive update and mangle data efficently it ensure data security reduces redundency maintain consistancy and support matiuser access.

④ Diffrent normal forms of database
normalization?

⇒ *1NF No repeating groups atman atomic
values

*2NF No partial dependancy

*3NF No transitive dependancy

* BCNF Stronger form of 3NF ensuring
every detemiant is a candidate key

⑧ Explain the fundamental concepts of EPM
in conceptual data modeling.

⇒ ERM includes Entities (Real world object)
Attributes (properties of entites Relationship
connection between entities and key
unique identifier it used conceptual datadase
design.