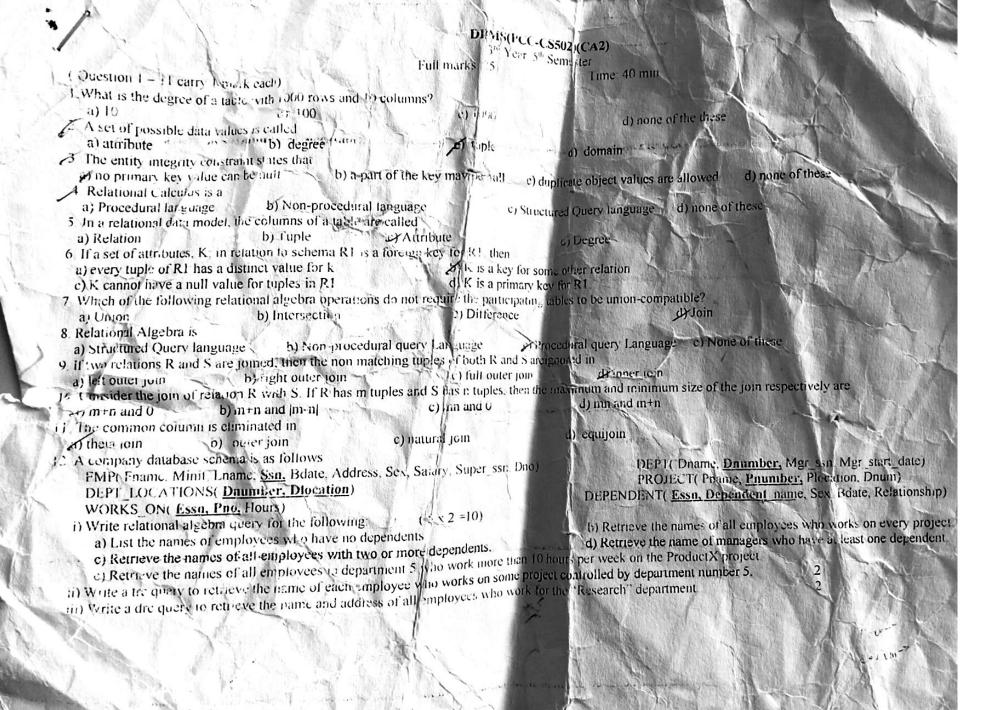
Full marks: 25

Time: 40 min

(Question 1 to 10 carry one mark each) a) insertion anomaly b) modification anomaly c) deletion anomaly all of the above a) referential b) functional partial key d) transitive 2.) Which of the following is the result of a transitive dependency?  $d) x \subset y$ 3. A functional dependency of the form  $x \rightarrow y$  is trivial if c)  $x \subseteq y$ a) y⊆x b)  $y \subset x$ 4. Let E be an entity set in a relationship set R. If every entity in E participates, in at least one relationships in R, then the participation of E in R is \_\_\_\_\_ a) Partial b) Total c) Complete d) Incomplete d. BCNF a. INF NENF c. 3NF 5. If every non-key attribute is functionally dependent on primary key, then the relation will be in d. BCNF & 3NF a. X->Z W->Z & X-> WY d. None of these 6. Which normal form is considered adequate for relational database design? b.2NF 7. Given the functional dependencies X-> W, X->Y, Y->Z, Z->PQ, Which of the following does not hold good? d. 4NF EBCNF 8. A normal form in which every determinant is a key is b. 3NF a-2NF d. None of these c. Cardinality N 9. In an E-R diagram double lines indicate Total participation b. Multiple participation d. relationship a. strong b. weak c. business entity has a primary key that is partially derived from the parent entity in the relationship 11. "Every relation in BCNF is also in 3 NF; however, a relation in 3 NF is not necessarily in BCNF." Explain 12. Explain Cardinality in ER diagram with example. 1+2 13. What is functional dependency? Differentiate between trivial and non trivial functional dependency. 14. Convert the following ER diagram into corresponding tables Name (Branch id) Name Addres Branch Bank Code Address Maintain Offer Account No Loan Account Acc\_Type Loan oan type M M Balance Amount Hold by Availed by Customer ER Diagram of a Bank Address Custid none Name



## DBMS(PCC-CS502)(CA4) (SET-5) 3rd Year, 5th Semester Full marks: 25

run marks: 25	250
1. The relationship set is represented in E-R diagram as  1. The relationship set is represented in E-R diagram as  1. The relationship set is represented in E-R diagram as	
a) Double diamonds  2. An entity set that does not have sufficient attributes to form a primary key is termed a  a) Strong entity set  b) Variable set	
a) Strong entity set b) Variant set c) West set termed a d) Variable set	
a) Strong entity set  3. For a weak entity set to be meaningful, it must be associated with another entity set, called the  a) Identifying set  b) Owner set  d) Variable set  d) Strong entity set  d) Strong entity set	1233
a) Identifying set  b) Owner set  b) Owner set  c) No introduction between the another entity set, called the color set in the large set in th	
4. A relationship is an association between (c) Neighbour set	
4. A relationship is an association between a) objects  5. Which of the following is not a consequence of non-normalized database?  b) Insertion A normaly b) Insertion A normaly consequence of non-normalized database?	
a) Update Anomaly b) Insertion Anomaly c) Reduct database?	
a) Update Anomaly  6) Insertion Anomaly  c) Redundancy  d) Lost update problem	
a) Dependent h) Normal key.	
a) Dependent b) Normal c) Candidate  7. A table is in 3NF if it is in 2NF and if it has no d) Both Normal and Candidate	
a) Eurotional Dependencies h) Transiti D	cies
a) Functional Dependencies b) Transitive Dependencies s an indirect functional dependency one is such that the control of the	Sies
acpointed by, one in which X->V and X->Z.	
a) Multivalued Dependencies b) Join Dependency c) Trivial Functional Dependency d) Transitive Dependencies c) Trivial Functional Dependency	the
then the attribute A is a key attribute which is also known	me
By Every time attribute A appears, it is matched with the same value of attribute C. I herefore, it is true	mat.
(B,C) -> A	
11. The values of the attribute describes a particular	
12. If both the functional dependencies: $X \rightarrow Y$ and $Y \rightarrow X$ hold for two attributes X and Y then the relationship between X and Y is	
Δ) 171.11 (V)	
13. The ERD is used to graphically represent the database model (a conceptual database model)	
14. A relationship exists when three entities are associated a) weak b) ternary c) binary d) weak	
15. Which of the following is not a consequence of concurrent operations?	
a) Lost update problem b) Update anomaly c) Incorrect Summary problem d Dirty read	
16. The FD A -> B, DB -> C implies a) DA -> C b) A -> C c) B -> A d) DB -> A	
17. In an E-R, Y is the strong entity and X is a weak entity. Then which of the following is incorrect:	
a) Operationally, if Y is deleted, so is X  b) existence of X is dependent on Y.	
c) Operationally, if X is deleted, so is Y.  d) Operationally, if X is deleted, Y remains the same.	BEET STATE
18. Which of the following is not a property of transactions?  a) Atomicity  b) Concurrency  c) Isolation  d) Durability	12.00
19. Which of the following is not a consequence of concurrent operations?  a) Lost update problem    b) Update anomaly    c) Unrepeatable read.    d) Dirty read.	TO SHE
u) Lost update problem: (b) openie anomaly.	1
20. A transaction is in state after the last operation has been executed.  a) partially committed b) active c) committed d) none of the above	
a) BCNF is stricter than 3 NF  b) Lossless, dependence preserving decomposition into 3 NF is always possible	
a) BCNF is stricter than 3 NF b) Lossless, dependency—preserving decomposition into BCNF is always possible d) Any relation with two attributes is BCNF	The same
C) LAISS ICSS, UCDCHUCHCY - DICSCI VIII GOOD POSTAGE	SO IN CO.
22. Relations produced from an ER diagram will always be a)4NF b)3NF c)2NF d)1NF	
23. In addition to removing undesirable characteristics, normalization also eliminates anomalies.	ASS 10
Y . 1. Th. Jaka at Delete (1) All Uning 2007	
24 A common approach to normalization is to the larger table into smaller tables and link them together by using relationships.	
h) Cubtract C) Mulliply u u) Divide	No.
25. Which of the following gives a logical structure of the database graphically?	ALC: N
a) Entity-relationship diagram b) Entity diagram c) Database diagram d) Architectural representation	
a Direct Tolands of the Control of t	ACCRESS NAME OF THE PARTY OF TH

DBMS(PCC-CS502) 3rd Year, 5th Semester Time: 45 min Full marks: 25 1. In an ER diagram, what do entities represent? b) Physical storage locations Relationships between tables d) Database queries c) Real-world objects or concepts 2. Which of the following is not a type of database? d) Decentralized c) Distributed Network a) Hierarchical Analysing code 3. Which of the following is not a function of the database? c) Security for stored data b) Manipulating data a) Managing stored data All of these 4. Which of the following is a function of the DBMS? c) Data Integrity b) Providing multi-users access control a) Storing data 5. What is information about data called? d) Relations Meta data b) Tera data a) Hyper data 6. Which of the following best describes an attribute in an ER model? d) A type of relationship c) A characteristic or property of an entity a) A link between entities A primary key 7. Because it contains a description of its own structure, a database is considered to be d) an application program self-describing b) metadata compatible a) described 8. What is the overall responsibility of the DBA? b) Create and populate tables Both the first and third answers above are correct a) Facilitate the development and use of the database c) Development, operation, and maintenance of the database and its applications 9. Data Model is collection of conceptual tools for describing -All of these c) Consistency Constraints b) Data Schema a) Data 10) The users who use easy-to-use menu are called d) Casual end users c) Stand-alone users by Naive users a) Sophisticated end users 11 What is the difference between a database schema and database state 13. What is the difference between logical data independence and physical rata independence? Which one is harder to achieve and why? 3+2 12. Describe three schema architecture with diagram. 14. What is distributed dbms? Differentiate between homogeneous and hete ogeneous distributed dbms.