



UNIVERSITY OF THE PUNJAB

B.A. / B.Sc. Part – II

Annual Examination – 2019

Subject: Computer Studies-II

PAPER: A (Database Managt Systems, System & Networks Adminst.)

MAX. TIME: 1 Hr.

MAX. MARKS: 20

Roll No. in Fig.

Roll No. in Words.

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q1) Choose the most appropriate option for the following statements and write on the provided answer sheet. (Please write only correct options, no need to write whole Answer). (Marks:10)

1) A Data Model is a collection of logical constructs used to represent the data structure and the data relationships found within the database.

A) True B) False C) Statement is not clear

2) The sub-language of a SQL used to describe the structure of a database is called the Data Definition Language.

A) True B) False C) Statement is not clear

3) You can use arithmetic operators in any clause of a SQL statement except theclause.

A) SELECT B) FROM C) WHERE D) ORDER BY

4)is a collection of programs that manages the database structure and control access to the data stored in the database.

A) Data Model B) DBMS C) Schema D) None of them

5) DROP TABLE is a DML Statement.

A) True B) False C) Statement is not clear

6) You can write sub query inclause(s).

A) HAVING B) WHERE C) FROM D) A, B & C E) A & B only

7) Primary Key may contain null values

A) True B) False C) Statement is not clear

8)are associations among entities.

A) Degrees B) Cardinalities C) Relationships D) None of them

9) Aentity is one whose existence depends on another entity.

A) Weak B) Strong C) Structured D) None of them

10) Key elements of the E-R model are

A) Entity and attribute B) Attribute and identifier
C) Identifier and relationship D) All of them

P.T.O.

Q2) Choose the most appropriate option for the following statements and write on the provided answer sheet. (Please write only correct options, no need to write whole Answer). (Marks:10)

1. Which of the following is not a transmission mode?

- A. Simplex
- B. Half Duplex
- C. Semi Duplex
- D. Full Duplex

2. A process is in a Running state, if it is not allocated to a CPU but is ready to run.

- A. True
- B. False
- C. Statement is not clear

3. Aprocess is one that shares information with or controls the sequence of instructions executed by another process.

- A. Shared
- B. Integrating
- C. Cooperating
- D. Binding

4. Thereplacement algorithm is a combination of the FIFO and NRU algorithms.

- A. Second Chance
- B. N-FIFO
- C. FIFO-RU
- D. First Chance

5. Ais the physical communication pathway that transfers data from one device to another.

- A. Node
- B. Link
- C. Point
- D. None of them

6. A cable break in a topology stops all transmission.

- A. Mesh
- B. Bus
- C. Star
- D. Primary

7. An interrupt is an event generated by the CPU and control goes to the Operating System

- A. True
- B. False
- C. Statement is not clear

8. Round Robin (RR) is preemptive process scheduling algorithm.

- A. True
- B. False
- C. Statement is not clear

9. Coaxial cable carries signals of higher frequency ranges thancable

- A. Twisted-pair
- B. Optical Fiber
- C. Twisted Fiber
- D. Fiber Pair

10. LED stands for:.....

- A. Light-emitting diode
- B. Laser exiting diode
- C. Light exile direction
- D. Laser emitting direction



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Q1) Choose the most appropriate option for the following statements and write on the provided answer sheet. (Please write only correct options, no need to write whole Answer). (Marks:10)

- You can use arithmetic operators in any clause of a SQL statement except the clause.
A) SELECT B) FROM C) WHERE D) None of them
- You can place the sub-query in the SQL-ORDER BY Clause
A. True B. False C. Statement is not clear
- If STUDENT and COURSE participate in a relationship, this is an example of a(n):
A. Unary relationship. B. Binary relationship.
C. Ternary relationship. D. Coupled relationship.
- In an E-R diagram attributes are represented by
A. Lines B. Rectangles C. Diamond shaped box D. Ellipse
- A relation is in normal form if all non-key attributes are dependent on all of the key.
A. Second B. Third C. Boyce Codd D. Fourth
- In entity relationship diagram, a many to many relationship is represented by M:M.
A. True B. False C. Statement is not clear
- What is a 'tuple'?
A. Another name for the key linking different tables in a database.
B. An attribute attached to a record.
C. Another name for a table in an RDBMS.
D. A row or record in a database table.
- Which of the following is a problem of file management system?
A. Difficult to update B. Lack of data independence
C. Data redundancy D. Program dependence E. All of above
- Which of the following fields in a student file can be used as a primary key?
A. Class B. National Identity Card Number C. Marks Obtained D. Subject
- A data dictionary is a special file that contains
A. the names of all fields in all files B. the data types of all fields in all files
C. the widths of all fields in all files D. All of them

Q2) Choose the most appropriate option for the following statements and write on the provided answer sheet. (Please write only correct options, no need to write whole Answer). (Marks:10)

- The layer of OSI model can use the trailer of the frame for error detection.
A) Physical B) Data link C) Transport D) Presentation
- In a topology, if there are n devices in a network, each device has n-1 ports for cables.
A) Mesh B) Star C) Bus D) Ring

P.T.O.



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MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Note: Attempt any FOUR Questions. All Questions carry equal marks.

Q3 Write the following SQL Statements (Marks: 12.5)

- 1) Write a SQL statement(s), which create the following given EMP_PAY table with Emp_ID as primary key, and insert the following data in the table. Please also make sure salary entry should be in range of 0 to 100,000.

EMP_PAY			
Emp_ID	Emp Name	BPS Grade	Salary
1	Ather Asif	17	30000
2	Elaaf Toor	18	35000
3	Rafia Noor	17	32000
4	Asif Bukhari	19	40000
5	Musarrat Amir	18	33000
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- 2) Write a single SQL statement on the given EMP_PAY table, which shows 2nd maximum salary of a employee.

- 3) Write a SQL statement on the following given EMP_PAY table, which shows the following table

Grade	Average-Salary
17	31000
18	34000

P.T.O.