S.No.: 183

BCA 2302

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BCA Examination 2018-19

(Third Semester)

DATABASE MANAGEMENT SYSTEM

Time: Three Hours] [Maximum Marks: 60

Note: Attempt all questions.

SECTION-A

1. Attempt all parts of the following:

 $8 \times 1 = 8$

- What do you known by composite attribute? (a) Give an example.
- Differentiate between primary key and unique (b) key constraints.
- (c) Define Naive user and sophisticated user.

[P. T. O.

- (d) What do you understand by Cardinality Ratio?
- (e) What is the use of Conflict Serializability?
- (f) Give an example of data control language.
- (g) Define the term total participation in E-R model.
- (h) Differentiate between group by and order by Clause.

SECTION-B

- 2. Attempt any two parts of the following: $2 \times 6 = 12$
 - (a) Outline the ANSI-SPARC 3 level DBMS architecture. Distinguish clearly between the levels.
 - (b) Describe and distinguish clearly the integrated file approach and the dtabase management system approach to data processing system.
 - (c) What is the use of Normalization? Explain 3NF with example.

(d) Check given schedule is view serializable or not. Justify your answer.

T ₁	T ₂
Read (A) A:= A - 50 Write (A)	
	Read (B) B := B - 10 Write (B)
Read (B) B := B + 50 Write (B)	
	Read (A) A : A - 10 Write (A)

SECTION-C

Note: Attempt all questions.

 $4 \times 10 = 40$

3. Attempt any two parts of the following: 5

5×2=10

- (a) Draw an E-R diagram from online book store.
- (b) Why joins are required in DBMS? Explain all types of joins with example.
- (c) What are the anomalies in DBMS? Explain.

[P. T. O.

(c) What are recoverable schedule? Is given schedule is recoverable or not? Justify your answer:

T	T_2	T_3
Read (A) Read (B) Write (A) C	-	
	Read (A)	
		Write (A)
	Write (A)	
	C	Read (B) Write (B)
		С

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