

Total No. of Questions: 4/18

Total No. of Pages: 2

**SECOND YEAR (SYBCA (Science))**  
**BCA23102: Advanced Database Management System-II**  
**(Semester III)**

**Program: BCA**  
**Program Code: BCASc08**  
**Program Specific: BCA (Science)**  
**Course Type: MC**  
**Paper:**

**Credits: 2**  
**Time: 2 Hours**  
**Max. Marks: 30**  
**SET: A**

**Instructions to the candidate:**

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

**SECTION: A**

**Q1) Answer the following**

**[5 X 1= 5]**

1. What is PL/SQL?
2. Define foreign key concept.
3. Explain PL/SQL blocks.
4. Define loops in PL/SQL.
5. Define Exceptions.

**SECTION: B**

**Q2) Answer the following (Attempt any 5/7)**

**[5 X 2 =10]**

1. What is RDBMS and how it is differ from DBMS?
2. State the view with suitable example.
3. Explain the deadlock.
4. What are Checkpoints.
5. What are Schedules.
6. Explain view with suitable example.
7. Describe the Recovery concepts.

**SECTION: C**

**Q3) Answer the following/Write short notes on following (Attempt any 2/4)**

**[2 X 5 = 10]**

1. What is Trigger and its type.
2. Illustrate the database security concepts.
3. Define the concept of serializability with suitable example.
4. List the Transaction Failure classification.

**SECTION: D**

**Q4) Answer the following (Attempt any 1/2)**

**[5 X 1 = 5]**

1. What is the function in PL/SQL with suitable example.
2. Explain deadlock and explain conditions of deadlock.

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MEP 2020