Total No. of Questions : **11**]   [Total No. of Printed Pages : **3**

SCA–141

B.C.A. Part-III Due of Part-I (Supplementary) Examination, 2022

DATABASE MANAGEMENT

Paper : BCA – 102

Time : 1½ Hours]   [*Maximum Marks : 70*

| Section–A | (Marks : 2 × 10 = 20) |

Note :–   Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

| Section–B | (Marks : 4 × 5 = 20) |

Note :–   Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **4** marks.

| Section–C | (Marks : 10 × 3 = 30) |

Note :–   Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section–A

1.   (i)   What are Indices ?

     (ii)   What is Sets ?

(iii)   Write the difference between Primary key and Candidate key ?

(iv)   What is Cross Product ?

(v)   What is Variable ?

(vi)   What is MySQL case statement ?

(vii)   What is Augmentation Rule ?

(viii)   What is Pseudo Transitive Rule ?

(ix)   What is Starvation ?

(x)   What is Deadlock ?

Section–B

2.   Define Natural Language Interface.

Or

What is stored attribute ?

3.   What is constraint ? Explain.

Or

What is Relational Model ? Define.

4.   Give the difference between stored procedure and function in MySQL.

Or

Define views in MySQL.

5.   Explain the non-trivial functional dependency in DBMS.

Or

Define the view serializability.

6.   What is Lock Granularity ?

Or

Define 2PL.

Section–C

7. Explain the database system architecture.

8. What is Join Operation ? Expalin in detail.

9. Define SQL aglebraic operations.

10. What is Normalisation ? Explain.

11. What is Concurrency Control ? Define timestamp ordering algorithm.