# Online Annual Examination-2020

### B.C.A. Part – II
### (DBMS)

Max. Marks:100

## Section – A

Answer the following questions in one or two sentences.
Each question carry 2 marks. (2 X 10 = 20)

(1) What is DBMS?
(2) What do you understand by Instances & Schema ?
(3) What is Data Dictionary?
(4) What do you understand by data Independence ?
(5) What is an entity?
(6) Explain Insertion anomaly?
(7) What do you understand by strong & weak entity?
(8) Draw Notation for composite attribute & Explain it too?
(9) What do you understand by OCD?
(10) What do you understand by Trivial & Non-Trivial Functional dependency ?

## Section – B

Answer the following short answer type questions in 150-200 word
Each question carry 6 marks. (6 X 5 = 30)

(1) What do you understand by DBMS user ? Explain it in brief?
Or
What do you understand by Database Abstraction ? Explain it in Brief?

(2) What is the purpose of Database system. Explain it in Brief?
Or
Explain DBA roles an brief?

(3) What do you understand by Data Model? Explain Relational Model in brief?
Or
Explain Hierarchical Model in brief?

(4) Explain Network Model with its Advantages & Disadvantages ?
Or
Explain pifalls in database Design?

(5) What do you understand by DBMS storage & structure in brief?
Or
What do you understand by E-R diagram? Write about its advantages?

## Section – C

Answer the following long answer type questions in 300-350 word
Each question carry 10 marks. (10 X 5 = 50)

(1) What do you understand by DBMS Languages? Explain.
Or
How can you convert on E-R model into Relation scheme? Write about required steps?

(2) Draw an E-R diagram for library Management system.
Or
Explain generalisation , specification & aggregation.

(3) Explain following
(a) primary key   (b) foreign key   (c) candidate key   (d) composite key
(e) super key.
Or
What do you understand by Joins? relational algebra. Write about its operation.

(4) What do you understand by Joins? write about its type with examples?
Or
What do you understand by Integrity ? Explain its types with examples?

(5) What do you understand by Constraints Normalization? Explain its types?
Or
What do you understand by functional dependencies? Explain different type of dependency with examples.

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