Y – 2926

P.G.D.C.A. (Second Semester) EXAMINATION,

May/June-2021

Paper – 203-DBMS

Time : Three Hours

Maximum Marks : 100   *Minimum Pass Marks : 40*

नोट-   **सभी** प्रश्न हल कीजिए।

Attempt *all* questions.

इकाई-I
(Unit-I)

1. उपयुक्त उदाहरण के साथ DBMS (Data base management system) को परिभाषित कीजिये। DBMS के सन्दर्भ में निम्न terms को उपयुक्त उदाहरण सहित समझाइये।   20

   (i) Redundancy.

   (ii) Security.

   (iii) Integrity and

   (iv) Consistency.

   Define DBMS (Data Base Management System) giving suitable example.

   With reference to DBMS, explain following terms with suitable examples :

   (i) Redundancy.

   (ii) Security.

   (iii) Integrity and

   (iv) Consistency.

इकाई-II
(Unit-II)

2. उपयुक्त उदाहरण देते हुए किन्हीं चार पर संक्षिप्त टिप्पणियाँ लिखिए—   20

   Giving suitable examples, write short notes on any four—

   (i) Cartesian product.

   (ii) Relational calculus and relational algebra.

   (iii) Relational model and its use.

P.T.O.

(iv) Tuple, domain and Attributes.

(v) Various normal forms.

(vi) Union and set difference.

इकाई-III
(Unit-III)

3. DBMS में विभिन्न models को प्रयोग करने का क्या उद्देश्य है ?   20

Models के लाभ, हानि एवं उपयोगों के देते हुये निम्न models की तुलना विस्तार से कीजिये :

Relational, Hierarchical and Network.

What is the purpose of using different models of DBMS ?

Listing the advantages, disadvantages and applications, compare following models in detail :

Relational, Hierarchical and Network.

इकाई-IV
(Unit-V)

4. Relational algebra के साथ इनके extended operations के बारे में एक विस्तृत नोट लिखिये।

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Write a detailed note on the structure of relational algebra with its extended operations.

इकाई-V
(Unit-V)

5. किन्हीं चार पर उपयुक्त उदाहरण के साथ संक्षिप्त टिप्पणियाँ लिखिये—   20

Write short notes with suitable examples on any four :

(i) Integrity and SQL.

(ii) Database integrity.

(iii) Attribute rules.

(iv) Domain rules.

(v) Assertions and Triggers.

(vi) Relation rules.

(vii) Integrity rules.