

SANT GADGE BABA AMRAVATI UNIVERSITY
BACHELOR OF ENGINEERING SEMESTER VI (CGS) EXAMINATION S-2020

H.V.P.Mandal's College of Engineering and Technology, Amravati
Department Of Mechanical Engineering

Academic Session:2019-2020

Unit : I,II,III,IV,V,VI

Subject Name : Computer Software Application

Max Marks 20

Semester : VI

Date 23/12/2020

Subject Code :

Note: Solve any 2 questions out of 4 questions.
All Questions Carry Equal Marks.

Q 1st

- a) Explain the benefits of the database system.**2Marks**
- b) Explain with suitable example following operations of relational algebra: 1)Selection.**2Marks**
- c) Explain E-R with suitable example.**2Marks**
- d) Define Relationship set.**2 Marks**
- e) Explain the following operations in SQL with the help of suitable example.i) Insert**1 Marks**
- f)What is model .**1 Marks**

Q. 2nd

- a) Write and explain the functions and responsibilities of DBA.**2 Marks**
- b) Explain with suitable example following operations of relational algebra:
 - 1) Projection .**2 Marks**
- c) Explain different types of attributes used in E-R model.**2 Marks**
- d)Define Attribute.**2 Marks**
- e)Explain the following operations in SQL with the help of suitable example. i) Update**1 Marks**
- f) Explain :i) Knowledge based system**1 Marks**

Q. 3rd

- a) Explain DBMS with its various view levels.**2 Marks**
- b) Explain with suitable example following operations of relational algebra.1)Union**2Marks**
- c) Identify few entities, attributes and activities in a banking system. **2Marks**
- d) Define Relation.**2 Marks**
- e) Explain different types of joints with suitable example.**1 Marks**
- f) What is role of user-interface in expert system.**1 Marks**

Q. 4TH

- a) Explain with neat sketch of various components of Database system. **2 Marks**
 - b) State various relational operators. **2 Marks**
 - c) Define Entity. **2 Marks**
 - d) Explain the following clause with example. i) SELECT **2 Marks**
 - e) Explain the different SQL Aggregate Functions.**1 Marks**
 - f) Discuss the steps involved in simulation. **1 Marks**
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