

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

Semester : VI

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

Date 28/10/2020

Subject Name : Computer Software Application

Subject Code :

Max Marks 20

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

- Q 1st a) Explain the benefits of the database system. **3 Marks**
b) Explain with suitable example following operations of relational algebra:
1) Selection. **3 Marks**
c) Explain E-R with suitable example. **1 Marks**
d) Define Relationship set **1 Marks**
e) Explain the following operations in SQL with the help of suitable example. i] Insert **1 Marks**
f) What is model ? How models are classified? **1 Marks**
- Q. 2nd a) Write and explain the functions and responsibilities of DBA. **3 Marks**
b) Explain with suitable example following operations of relational algebra:
1) Projection . **3 Marks**
c) Explain different types of attributes used in E-R model. **1 Marks**
d) Define Attribute. **1 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. **3 Marks**
b) Explain with suitable example following operations of relational algebra:
1) Union **3 Marks**
c) Identify few entities, attributes and activities in a banking system. **1 Marks**
d) Define Relation **1 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. **3 Marks**
b) State various relational operators. **3 Marks**
c) Define Entity. **1 Marks**
d) Explain the following clause with example. i] SELECT ii] FROM iii] WHERE **1 Marks**
e) Explain the different SQL Aggregate Functions. **1 Marks**
f) Discuss the steps involved in simulation. **1 Marks**