

2. Answer any five from the following

2×5 = 10

- (a) What is sequential file organization?
- (b) Write two disadvantages of DBMS.
- (c) What is aggregation?
- (d) Define the term Integrity Constraints.
- (e) How candidate key are differ from super kay?
- (f) Explain the term Partial Dependency.
- (g) What is database security?

3. Answer any four from the following

4×4 = 16

- (a) What are the advantages and disadvantages of direct access organization?
- (b) Explain the differences between logical and physical data independence.
- (c) Discuss the procedure of converting E-R model into relational schema.
- (d) State and explain the basic components of a relation.
- (e) Explain the significance of primary key and foreign key in a database.
- (f) Write short note on database security.

4. Answer any one from the following

8×1 = 8

- (a) Explain different types database recovery.
- (b) Design an E-R diagram for airline reservation system consisting of flights, aircrafts, airports, fares, reservation, ticket and passengers. Clearly highlight the entities, the relationships, the primary keys and the mapping constraints.

5. Answer any one from the following

10×1 = 10

- (a) What is database administrator? Explain the role of a database administrator.
- (b) What are the objectives of normalisation proces. Discuss various types of normal forms in relational database.

.....