Khyber Pakhtunkhwa Board of Technical Education Peshawar

Diploma in Information Technology

(Part -II)

1st Term Examination 2020

Paper: Introduction to Database

Time allowed: 3 hours   Max marks: 100

Note: Attempt any five questions. All questions carry equal marks. Mobile phone & programmable calculators are not allowed.

Q1. Briefly explain Database models.

Q2.   a) Differentiate data and information.

   b) Define the following terms.

   i. Database   ii. Meta data   iii. Data dictionary

Q3.   (a) Define "relationship" and explain various types of relations with examples and diagrams.

   (b) What is attribute? Explain its types.

Q4. What is constraint? Explain Not Null, primary key and unique key constraints.

Q5. Explain following terms.

   i. Referential integrity   ii. Anomalies and its types
   iii. Strong and weak entity   iv. Composite key

Q6.   a) What is ERD? Explain with the help of example.

   b) What do you know by degree of relationship? Explain.

Q7.   a) What clause is used to sort table data in descending order? Explain with example.

   b) Differentiate "Commit" and "Roll back" statement.

Q8. Write short note on any two of the following.

   a) Simple and complex view
   b) Role and privilege
   c) Round and truncate function