Total No. of pages: 6

2019

Part – II

COMPUTER SCIENCE

(General)

Paper - IIB

(Practical)

(Set - II)

Full Marks – 50

Time: 2 Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer any **one** question (on lottery basis): 40×1

1. Consider the following tables:

Teacher (<u>Teacher ID</u>, Name, Department, Year of Experience)

Subject (Subject ID, Subject_Name, Semester, Teacher ID)

Using SQL, perform the following operations.

P.T.O.

(d) Find the names of the teachers who teach more than one subject.(e) Find the name of the teacher who has the highest experience.

some records in the tables.

Create the above detabase tables and insert

List the name and year of experience of all

List the names of the teachers department

the teachers of 'Physics' department.

Student (Roll No, Name, Date_of_Birth, Address) Marks (Roll No, Marks_in Physics,

Consider the following tables:

- Marks_in_Chemistry, Marks_in_Mathematics, Total_Marks)
 - Using SQL, perform the following operations.

 (a) Create the above database tables and insert
 - some records in the tables.

 (b) Display the details of the student who has
 - obtained the highest total marks.

 (c) List the names of the students who scored more than 50 in Physics but less than 50

in Chemistry.

(a)

(b)

(c)

2.

wise.

- (d) Find the name of the youngest student.
 - (e) Add a column average with appropriate data type in the marks table.
- 3. Consider the following tables:

Workshop (<u>Participant ID</u>, Participant_Name, Institution, Designation, Address, Amount_of_Fees_Paid) Using SQL, perform the following operations.

- (a) Create the above database tables and insert some records in the tables.
- (b) Display the details of all the participants with designations 'Student' and who are from 'Midnapore'.
- (c) Calculate the total amount paid by all the participants.
- (d) Group the names of the participants designation wise.
- (e) Add a column 'Date_of_Registration' of type date in the above table.
- Consider the following tables:
 Customer (<u>Customer ID</u>, Name, Age, Address)
 Loan (<u>Loan ID</u>, Amount, Custid, EMI)
 Using SQL, perform the following operations.

(d) Find the total number of loans availed.(e) Calculate the average loan per customer.5. Consider the following tables :

taken maximum amount of loan.

some records in the tables.

taken any loan.

Create the above database tables and insert

Find the name of the Customer who has

(b) List the name of the customers who have not

(a) Create the above database tables and insert some records in the tables.(b) Find the details of the book with second highest price.

Book (Acc No, Title, Author, Publisher, Price)

Using SQL, perform the following operations.

- (c) In descending alphabetical order, list the names of the authors whose names do not start with 'R' or 'S'.
- (d) List the names of the publishers who have not published any book of 'Rabindranath Tagore'.
- (e) Add a column 'Date_of_Purchase' of data type 'data' in the above table.

(a)

(c)

Journey (Passenger_ID, Flight_No, Date_of_ Journey) Using SQL, perform the following operations. (a) Create the above database tables and insert some records in the tables. (b) List the passengers who have travelled from

Consider the following tables:

'Kolkata' to 'Chennai'.

Last_Name)

Flight (Flight No, Source, Destination)

Passenger (Passenger ID, First_Name,

taken flights on 24th May, 2019. List the names of the passengers who have (d) been never boarded on the flight with flight number A11234.

(c) List the names of the passengers, who have

- (e) Add a column 'Age' of data type integer in the passenger table.
- Consider the following tables: 7. Product (Product ID, Product_Name, Price_per_Unit, Stock) Sales (Sales ID, Product_ID, Quantity) Using SQL, perform the following operations.

5

6.

P.T.O.

- (a) Create the above database tables and insert some records in the tables.
- (b) Display the name of the product which has the lowest stock.
- (c) Calculate the total sales amount of products sold with Product_ID 100.
- (d) List product names in descending order with respect to their price per unit.
- (e) Add a column 'Expiry_Date' of data type date in the product table.

Viva-voce: 5 Marks

Practical Note Book: 5 Marks