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UG/4th Sem/COMP./19 (Pr.)

2019

B.Sc.

4th Semester Examination

COMPUTER SCIENCE (Honours)

Paper - C10P

[Practical]

Set - I

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.
Illustrate the answers wherever necessary.*

Answer any *one* question

1. Doctor (Did, Dname, Dept-name, salary, Joining-date, Specialization)

Patient (Pid, Did, Pname, P-address, Phone-no, admitted-dept-name)

(i) Implement the above database in SQL.

(ii) Find list of patients admitted under "Dr. R Ghosh".

[Turn Over]

- (iii) Find total number of patients of cardiology department.
- (iv) List the names of doctors according to the experience in orthopedic department.
- (v) List total number of doctors in pathology department. 15

2. Employee (Emp-no, Emp-name, designation, Dept no., Salary, Manager-name, Hiredate).

Department (Dept-no. Dept-name, Location)

- (i) Create the above database.
- (ii) Find all employees whose department is located in Delhi and who was hired in 1981.
- (iii) Display Employee name and salary for all employees whose salary is not in the range of 15000 and 25000.
- (iv) Display Employee name and department No. of the employees in Dept 10 and 30 in alphabetical order by name.
- (v) Display the name and calculate the number of months between today and the date each employee was hired. 15

3. Employee (empno, name, office, age)

books (isbn, title, authors, publisher)

loan (empno, isbn, date)

- (i) Create the above database.
- (ii) Find the names of employees who have borrowed a book published by McGraw-Hill.
- (iii) Find the names of employees who have borrowed all books published by PHI.
- (iv) Find the names of employees who have borrowed more than five different books published by McGraw-Hill.
- (v) Find the total number of books borrowed by each borrower. 15

4. Bus (Bid, Agency-Name, Bfrom, Bto, No-of-days-per-week).

Ticket (Tid, Tfrom, Tto, Fare, Date, B-id)

- (i) Create database using SQL.
- (ii) Find the names of customers who booked tickets from Digha to Kolkata on 16th April, 2019.

[Turn Over]

- (iii) Find the total number of buses which runs from Midnapore to Howrah daily.
- (iv) Display fares of different buses from Haldia to Kolkata.
- (v) Increase the fare 2% for the bus of TATA agency. 15

5. Person (driver-id, name, Location)

Car (License, model, year)

Accident (Report-number, date, Location, damage-amount)

Owns (driver-id, License)

- (i) Create database using SQL.
- (ii) Find the total number of people who owned cars that were involved in accidents in 1990.
- (iii) Find the number of accidents in which the cars belonging to "Rimon" were involved.
- (iv) Add a new accident to the database.
- (v) Update the damage amount for the car with license number "A123" in the accident with report number "20" to Rs. 5000. 15

[PNB - 2, Viva - 3]