

NEW
Part-III 3-Tier
2015
COMPUTER SCIENCE
PAPER—VIII A (SET—1)

(Honours)

(PRACTICAL)

Full Marks : 50

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Group—A

Answer any one question : 20

1. Consider the following database :

EMPLOYEE (emp_no, name, skill, pay_rate)

POSITION (posting_no, skill)

DUTY_ALLOCATION (posting_no, emp_no, day, shift)

- (a) Find the shift details for employee 'ABC'
- (b) Get employees whose rate of pay is less than or equal to the rate of pay of employee 'ABC'.

(Turn Over)

- (c) Get duty allocation details for employee 'ABC' for the month Jan 2015.
- (d) Print all pairs of posting_nos. requiring the same skill.
- (e) Find the names of the employees having same skill and work in same shift.

2. Consider the following database :

Project (project_id, project_name, chief_arch)

Employee (Emp_id, Emp_name)

Assigned_To (Project_id, Emp_id)

- (a) Get employee. name of employees who work on Project e_4.
- (b) Get employee. numbers of employees who do not work on all projects.
- (c) Get employee. number of employees who do not work on those Projects that employee 107 works on.
- (d) Get details of the employees working on both e_3 and e_4.
- (e) Obtain details of employees working on database Project. 4×5

3. Consider the following database :

Supplier (Sno, Sname, Status, City)

Parts (Pno, Pname, color, weight, city)

Project (Jno, Jname, city)

SPj (Sno, Pno, Jno, Qty)

- (a) Get Pno values for Parts supplied to all Projects in 'London'.
- (b) Change the color of the red part having the lowest weight to orange.

Group—C

Answer any one question :

10

9. Write a HTML code for the Calender of April 2011 with indicating holidays and Sundays are red color and Saturdays are green colors.
10. Write a HTML code for creating the login page.
11. Design a web page which contain the following :

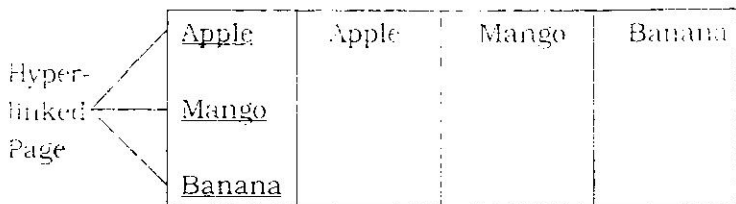
Name

Address

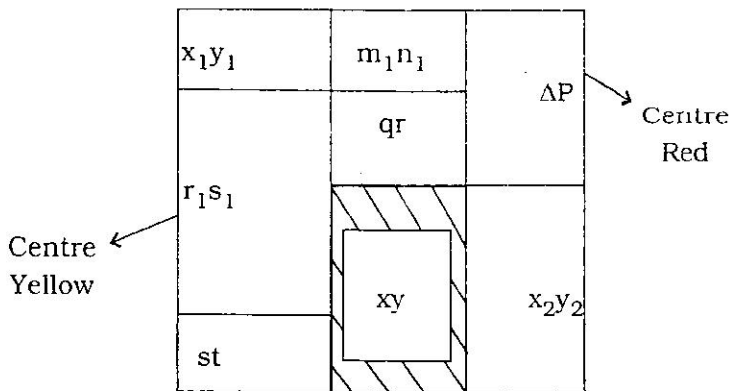
Gender : Male FemaleSelect Qualification : B.Sc. M.Sc. M.C.A. B.C.A.Academic Qualification :

| Exam Passed | Board / University | Year of Passing | Percentage |
|-------------|--------------------|-----------------|------------|
| | | | |
| | | | |
| | | | |

12. Write a HTML code which divide the window vertically 4 times using frameset and create the following figure :



13. Write a HTML code for the following table :



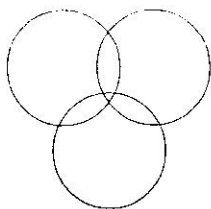
Practical Note Book : **05**

Viva : **05**

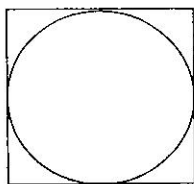
Group—B

Answer any *one* question :

5. Design the following diagram using Bresenham circle drawing algorithm :

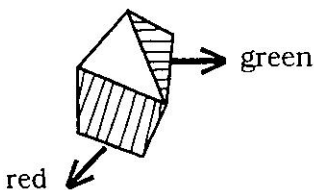


6. Design the following diagram :



[Design the circle using any circle drawing algorithm]

7. Assume an ellipse using midpoint ellipse drawing algorithm.
8. Fill the region shows in following diagram using any fill algorithm by red color and green color :



- (c) Get Sno values for suppliers who supply Project is J1.
- (d) Get Jnames for those Projects which are supplied by supplier xyz.
- (e) Get supplier names, sno, city, starting with name 'a' or 's'. 4x5

4. Consider the following database :

ENROLL (S#, C#, Section)

TEACH (Prof, C#, Section)

ADVICE (Prof, S#)

PRE-REQ (C#, Pre_C#)

GRADE (S#, C#, grade, year)

STUDENT (S#, Sname)

- (a) List of students taking courses with Rahul or Bimal.
- (b) List all students taking atleast one course that their advisor teaches.
- (c) List those Professors who teach more than one section of the same course.
- (d) List all student number and course number.
- (e) List the student number and course number who got grade A.

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(PRACTICAL)

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Answer two questions taking one from each Group.

Group—A

(Marks : 20)

1. Write an assembly language Program to find the square-root of a given number.

(Turn Over)

2. Write an assembly language program for finding out the following arithmetic operation :

Add 14H and -9H

3. Write an assembly language program to generate first 10 non-Fibonacci number.
4. Write an ALP to find the sum of series of 8 bit numbers. sum may be 16 bits.
5. Write an assembly program to find 2's complement of an 8 bit number.
6. Write an ALP to convert an 8 bit Hex number to decimal number.
7. Write an ALP to calculate the sum of a series of 8 bit numbers.
8. Write an assembly language program to find the second highest number from a set of data.

9. Write an ALP to store a number in some memory location. If the number is odd then store 01H in some other location and if the number is even then store 00H in that location.

Group—B

(Marks : 20)

1. Write a program for 8085 μ p using 8255 IC interfacing to display a following word and 7 segment display :

ATTITUDE

2. Design and implement an I/O interfacing circuit which display 0 to 9 using seven segment display. Each number is displayed after 5 sec.
3. Write a program to generate a square wave using 8255. Use CRO to show the wave.
4. Design a digital clock using 8085 μ p and 8L55 IC.

- 5. Write a program to scroll the letter "Z" through four 7 segment display.

Practical Note Book : 05

Viva : 05
