



PAPER ID : 101504-N

TCS-507

Printed Pages : 3

Paper ID and Roll No. to be filled in your Answer Book

Roll No.

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B. Tech.

(SEM. V) (ODD SEM.) (REG.) EXAMINATION, 2012-13

CONCEPTS OF PROGRAMMING & OOPS

Time : 2 Hours]

[Total Marks : 50

Note : Attempt all questions. Be precise in your answer.

SECTION - A

- 1 Attempt any two of the following : 2×5=10
- (i) What is the difference between Abstract class and methods ?
 - (ii) What is the difference between Generalization and Multiple Inheritance ?
 - (iii) What do you mean by aggregation ? How many types of aggregation ?

SECTION - B

- 2 Attempt any two of the following : 2×5=10
- (i) How many languages are used in DBMS and what is the difference between DML and DDL statements ?
 - (ii) What do you mean by normalization ? Difference between 3 NF and 2NF.
 - (iii) Draw the E-R diagram for banking Enterprise system.

SECTION - C

3 Attempt any two of the following : $2 \times 5 = 10$

(i) Write a program to display

```
      2      3
    3 4 5 6
  8 9 10 11 12
```

(ii) Explain the various software development models.

(iii) Explain the elements of UI design and reports.

SECTION - D

4 Attempt any two of the following : $5 \times 2 = 10$

(i) How many types of editors we can use in UNIX operating system ? What are the main functions of vi editors ?

(ii) You are ediac in vi, and want to make a temporary exit to the shell. How will you do that and then come back to vi again ?

(iii) Explain the utility provided by the UNIX for managing and tracking to files. Suppose we want to check a C program for a syntax and data type errors. Which UNIX utility can be used to display message that point out, possible problems ? Explain the procedures to use this utility ?

SECTION - E

5 Attempt any one of the following :

(i) Write short notes on the following :

10

(a) Relationship

(b) Inheritance

(c) Abstract classes

(d) Polymorphism

(e) Object Oriented Design

(ii) How many type of data model are used in RDBMS ? Explain with suitable example.