FOR EVALUATOR'S USE ONLY

Sub. Code : $0\overline{9}$ Optional Paper

Computer Engineering: Paper - I

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| 3 | | | | 23 | | | | 35 | | | | Total |
| 4 | | | | 24 | <u> </u> | | | 36 | | | _ | (–) Marks |
| 5 | | | _ | 25 | | | | 37 | | | | Final Total |
| 6 | | | | 26 | | | | 38 | | | | Marks in Words |
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Note: Attempt all the twenty questions. Each question carries 2 marks. Answer should not exceed 15 words.

1 Compute value of X in $2765_8 + F6A_{16} = X_8$.

When does an object become eligible for garbage collection ?

3 Obtain complexity of binary search in sorted data using recurrence relation.

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Find the output of the following Java Program:
         public class java prog
         {
        public static void main (string [ ] args)
              int a [ ];
              try
                         a = new a [10];
                         return;
                        a[10] = 10;
                        system.out.println ("10th No =" a [10]);
             catch (Exception e)
                  system.out.println ("Exception has occurred");
             finally
                  system.outp.println ("Finally arrived");
       }
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                                                                                    [Contd...
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| 10 | Differentiate horizontal mi | croinstructio | n with ver | rtical microir | istruction. | |
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| 11 | What is Von-Neuman mod | del ? | | | | |
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| 12 | Consider the statement: "C logic." Prove or disprove | | | c is equivale | nt to AND | gate in positive |
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What is the output of the following C program ?
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     # include <stdio.h>
     main()
     {
          int a, b = 0;
         static int c[10] = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 0\};
          for (a = 0; a < 10; + + a)
         if ((\bar{c}[a]\%2)=0) b + = c[a];
          printf("%d", b);
    }
  How can a stack be implemented by queue(s)?
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| 17 | Write SQL command | at find second maximum value of field1 in | table tname1. |
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| | operations. Write two | them. | |
| —- 16 | | ssor translates the instruction ADD r_1 , r_2 , r_3 | T ₃ into six micro |
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|) 1 | What does ACID stands for ? |
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| | dentity best normal form. |
| | $\{CE \to D; D \to B; C \to A\}$ Find all candidate keys and identify best normal form. |
| 9 | Suppose a relation $R = (A, B, C, D, E)$ with following functional dependencies |
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| Note | e : | Attempt all not exceed | the twelve 50 words. | question | is. Each qu | estion ca | rries 5 m | arks. A | nswer shou |
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| 21 | Drav | v K-map of th | ne following | function | f(A,B,C) | $(D) = \sum_{i=1}^{n}$ | m (0, 1, 2, | 3, 5, 7, 8 | 3, 9, 11, 14) |
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| -bit comparator that outputs 1 | when 2-hit input | A is greater than | or equal to 2 |
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| Design a circuit to comp | oute 2's complement of a | binary number. | |
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| | $S = \{x_1, x_2, \dots, x_n\}$ and $T = \{y_1, y_2, \dots, y_i\}$ for $s, 1 \le x_i \le m$, $1 \le i \le n$ and $1 \le y_i \le m$, $1 \le i \le r$ for T All x_i 's and y_i 's are integers. | |
| 27 | is a subset of T in $O(n+r)$ time where | rsetS |
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| If it | takes 5 | ns to | read a | ı instr | uction | n from memory, 2 ns to decode the instruction required by the instruction | uction, 3ns to re |
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| 31 | Database tal Borrower Ramesh Suresh Mahesh | ble by name Loar Bank_Manager Sunderajan Ramgopal Sunderajan | n_Records is given below Loan_Amount 10000.00 5000.00 | |
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| Suppliers (Sid, SName, Address) | | | | | | | | | | |
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| Part | ts(Pid, PName, Color) | | | | | | | | | |
| Cata | alog(Sid, Pid, Cost) | | | | | | | | | |
| (a) Find names of parts supplied by "ABC" | | | | | | | | | | |
| (b) | Find name of parts for which there is some | supplier. | | | | | | | | |
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PART - C

Marks : 100

| Note | :: | Attempt any 5 questions. Each question carries 20 marks. Answer should 200 words. | not excee | d | |
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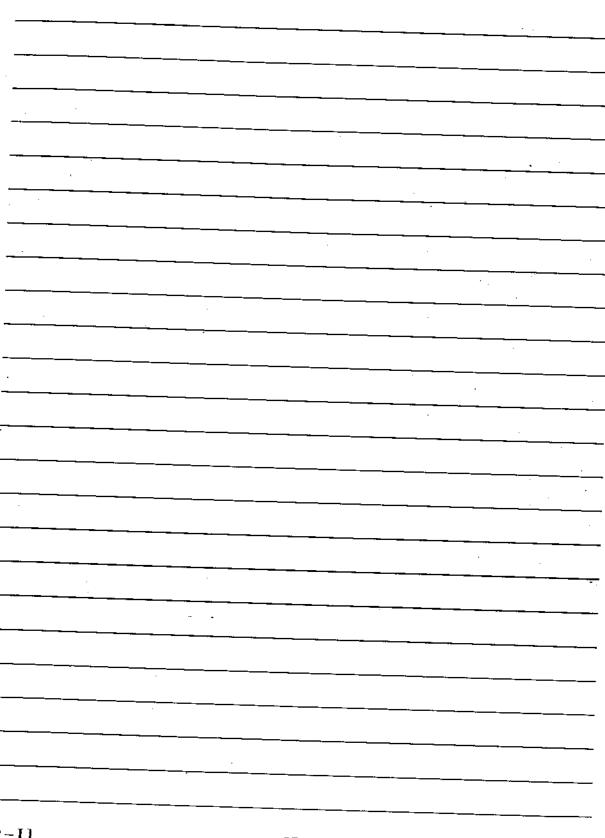
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