

Name:	-	Tel Number:
Degre	e & Branch:	Email id:
INSTR	UCTIONS	
	a strict 60 minutes.	estions and Part B contains 10 questions. Time limit is NEATLY from the choices given.
	PART A - QU	JANTITATIVE APTITUDE QUESTIONS
1) Fin	d the odd man out. 12	2, 21, 32, 45, 60, 77, 95
	. 95	
	. 45 . 32	
10 ·	. 21	
2) A n	nan can row 7.5 kmph	in still water and he finds that it takes him twice as
		own the river. Find the rate of stream.
	. 10 km/hr	
	. 2.5 km/hr	
	, 5 km/hr	
D	. 7.5 km/hr	
3) 9 6	xaminers can exami	ne a certain number of answer books in 12 days by
worki	ng 5 hours a day. Ho	w many hours in a day should 4 examiners work to
exam	ine twice the numbe	r of answer books in 30 days?
	. 9	
R	. 10	3931
	. 11	. 251
	. 12	2010
	. problem	
4) Th	e sum of the ages of	a father and son is 45 years. Fi(a years ago the product the father's age at that time. The present ages of the
	r and son, respective	
		,,
	. 25 years, 10 years	
	. 36 years, 9 years	•
	. 39 years, 5 years	
D	. none of these	the second of the account to Akadh, Akadh to then gave

fielded by and to be the best to be the second

E NO

	5) A student who secures 32% marks gets 42 marks more than those required to pass is:
	mination fails by 30 marks.
	5) A student who secures 32% marks gets 42 marks more than those required Another student who secures 32% marks required to pass is: Another student who secures of marks required to pass is:
	20% marks gets 42 marks gets 42 marks
	who secures 32% mained to pass is:
	A student who secure marks required
	5) A student who secures 32% marks gets 42 marks is: Another student who secures are required to pass is: Another student who secures are of marks required to pass is:
	to pass.
•	to Pass. A. 20
	B. 25
	B. 23
	C. 20 avact fitting right circular cone
	D. 30
	C. 28 D. 30 On the top. The height of the cone, then the height of the volume of the solid is three times the volume of the cone, then the height of the cone is the c
	6) A sold control the height of the first of
	placed (A tile and the colle, and the colle, and the colle, and the colle, and the college of th
	three times the
	A. 2h
	B. 4 h
	c. 2h/3
	D. 3h/4
	Last langth 1200 m with respective speeds 9
	7) A, B and C run around a circular track of length 1220 and contain the 18, 27 kmph. If they started at the same time from the same point and run in the
	18 27 kmph. If they started at the same time 17011
	18, 27 kmph. If they started at the same direction when will they meet for the first time?
	A. 360 sec
	B. B. 480 sec
	U. D. 100 000

A. 25 minutes

◆ C. 240 sec D. D. None

- B. 23 minutes
- C. 27 minutes
- D. 29 minutes
- 9) N is the smallest number which when added to the 2000 makes the resulting number divisible by 12, 16, 18 and 21, Then the N is

 - B. 7
 - C. 9
 - D. 16
- 10) Pankaj gave 50 percent of the amount to Akash. Akash in turn gave two-fifth of the amount to venu. After paying a bill of 500 rupees, venu now have 8000 rupees left with im. Find the amount hold by pankaj initially.

 - D. 44500

E

i j



PART B - PROGRAMMING QUESTIONS

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1. To create a linked structure, each element must have one member that is a
   A. reference to the element type
                                              B. pointer to NULL
   C. pointer to the element type
                                              D. pointer to the head of the list
2. What will be the output when following code is executed
   int main()
        float f = 10.0;
        printf("\n f=%d", f);
       return 0;
                                                    D.Garbage Value
                                       C.0
                    B. 10
    A. _0.0
3. Which of the following declares a to be a const pointer to an integer?
                                                                D. intconst * a const
                                          C. int * const a;
                    B. const int *a;
   A. int const a;
4. What output is produced by the following code?
    int main()
    {
        char str[] = "basic";
        char *s = str;
        printf("\n%s",s+++3);
        printf("\t%s",s);
        return 0;
                   B. c basic C. asic sicD. cc
    A. ic asic
5. Consider the following code:
int x[] = \{0, 1, 2, 3\};
Int temp, i = 0, j = 3;
while (i < j)
    temp = x[i];
    x[i] = x[i];
    x[j] = 2*temp;
    i++;
    j-- .
After this code is executed, the array x stores the following values:
                                              C.{3,2,1,0}
                                                                      D.(3, 2, 2, 0)
     A. {0, 1, 2, 3} B. {0, 2, 4, 6}
```



```
6. What output is produced by the following code?
     #include<conio.h>
     void main()
      {
         char s[]= {'a','b','c','d','c','\0'};
         cha. *p,*str,*str1;
         p = &s[3];
         str1 = s;
          printf("%d",++*p + ++*str1 - 32);
       }
                                                               D. None of the above
          A. 166
                          B. 167
                                            C. 168
      7. What output is produced by the following code?
      #include<stdio.h>
      int main()
       {
          printf("%d, %d, %d", sizeof(3.0), sizeof('3'), sizeof(3.0f));
         return 0;
      }
          A. 8, 1, 4
                           B. 4, 1, 4
                                       C. 8, 2, 4
                                                         D. 10, 2, ,
     8. What output is produced by the following code?
     void main()
     {
         static int var = 5;
         printf("%d",var--);
         if(var)
         main();
    }
        A.
            5
                  5
                        5
                              5
                                     5
             5
                        3
                                                    B. 5
                                     1
                                                   D. Infinite loop
   9. What output is produced by the following code?
   #include<stdio.h>
   void main()
  {
      printf("%x",-1<<4);
  }
               B. fff0 C. 10
      A. 0
                                 D. ffe0
 10. An identifier must begin with a
A. letter or digit and can contain letters, digits, or underscores
B. digit and can contain letters, digits, or underscores
C. letter, digit, or underscore and can contain letters, digits, or underscores
D. letter or underscore and can contain letters, digits, or underscores
```



PROGRAMMING TEST

Name:	Tel Number:						
Degree & Branch:	·	Email id:					
Problem Statement							
or not An array is said to be ba	lanced left is	if th equa	ere exist al to the	whether the given array is balanced s an element of the array such that sum of all elements to the right For 3=7 and 7			
Input The first line contains T the consists of an integer N deno line of each test case consists	oting th	e ni	umber of	es. The first line of each test case elements in an array. The second dintegers denoting the array			
Output Print "Yes if it is a balanced ar	ray else	pri	nt "No" w	vithout quotes			
Constraint 1<=T=10, 1<=N<=10^3, 1<=Ar	ray ele	men	ts<=10^4	I.			
Sample Input -1							
No of test cases- 3							
No of Elements for case 1: 3							
Enter elements for case 1: 1	2 3						
No of Elements for case 2: 4							
Enter elements for case 2: 1	2 3	3		*			
No of Elements for case 3: 6							
Enter elements for case 3: 1	2 3	4	5 10				
Sample Output							
Result for Case 1: No	-,			•			
Result for Case 2 : Yes	٠		•				

Result for Case 3: Yes

CIRCULAR PRIME

 $_{
m Write}$ a program in C to display **all** circular prime numbers below a given integer. A circular prime number is a prime number and whose all rotations of digits are themselves prime."

For example:

- 197 is a circular prime number because all rotations of 197, 971 and 719 are prime numbers.
- 1931 is a circular prime number because all rotations of 1931, 1193, 3119, 9311 are prime numbers.

Print the Circular prime numbers until N

Input:

First line of input contains a single integer N, the upper Limit.

Output:

Print all the Circular numbers <= N.

Constraints:

• $1 \le N \le 65536$

Example:

Sample Input:

Enter a number: 20

Output:

2

3

5

7 11

13

17

QUESTION A



ANSWER KEY

QUANTITATIVE APTITUDE

1) 1) B 2) A B 3) B C B B D 100 B 10) B

PROGRAMMING ANSWERS

1) C 2) C 3) C 4) A 5) D 6) B 7) C 8) B 9) B 10) A 1) 10) A

C

ELECTRICAL ANGWERD.

1) B

D

31 B

4,

C

7,

8, A

9,

101