4. WAP in *C* to find the sum of elements on both diagonals of a square matrix.

5. WAP in *C* to print the matrix alongwith row and column sum.

6. WAP in *C* to find the divisors of a positive integer.

7. WAP in *C* to calculate the frequency of all characters in a string of characters.

8. WAP in *C* to find ${}^{n}C_{r}$.

B II (Three Year G)
Under 1+1+1 System

2008

COMPUTER SCIENCE (General)

Sixth Paper

(Practical)

(Revised New Syllabus)

Time : Three Hours Full Marks : 50

Practical = 35

Viva-voce = 15

1. Write a program in *C* to find the smallest and second smallest number among a list of *n* numbers.

2. Write a *C* program to find roots of a quadratic equation using switch statement.

3. Write a *C* program to reverse a negative integer. For example if the entered number is - 5428 then the out put of the program should be 8245.

9. WAP in *C* to display word equivalent of a two digit number, (eg. 99 - Ninety Nine).

10. WAP in *C* to find the number of vowels in a given sentence.

11. Write a program in *C* to determine whether a number is prime or not.

12. WAP in *C* to find the sum of the number which are divisible by 7 and less than 500.

13. WAP in *C* to find the sum of two matrices.

14. WAP in *C* to test whether a string is polindrome or not.

15. WAP in *C* to evaluate a postfix expression.

16. Write a program in *C* to calculate the income tax based on salary.

Salary $\leq$ 10000. Tax = 0

10000 < Salary $\leq$ 15000 Tax = 10% of salary

15000 < salary, Tax = 20% of salary.

3. Write a C program to find the number of vowels in a given sentence.

4. Write a program in C to convert $(A+B)/(C-D)$ into its equivalent postfix expression.

5. Write a C program to find the HCF of three numbers.

6. Write C program to find the LCM of two numbers.

7. Write a C program to determine whether a number is prime or not.

8. Write a C program to sort 12 numbers using bubble sort.

BSc (Gen) Part–II (1+1+1)
Practical Exam., 2009

COMPUTER SCIENCE (General)

SIXTH PAPER

(Practical)

(Revised New Syllabus)

Time : 3 hours *Full Marks* : 50

The questions are of equal value.

Answer *any* **one** question on Lottery basis.

Practical : 35

Viva voce : 15

(Algorithm and flowchart are required.)

1. Write a program in C to find the smallest element and its location of a 5×5 matrix.

2. Write a program in C to multiply two matrices $A\,(3 \times 4)$ and $B\,(4 \times 3)$, output must be in the matrix form.

9. Write a C program to do the following :

Input : Amal Kumar Das
Output : A. K. D.

10. Write a C program to find the sum of the numbers which are divisible by 11 and less than 300.

11. Write a C program to reverse a string.

e.g., Bimal Kanti Saha — input
Saha Kanti Bimal — output

12. Write a C program to print the sum of two matrices (4 × 4) in the matrix form.

13. Write a C program to test whether a string is palindrome or not.

14. Write a program in C to create a sequential file and write 5 records into that file.

15. Write a C program to convert a binary number to its equivalent octal number.

16. WAP in C to find ${}^{n}C_{r}$.

★★★

3. Write a program in C to find out factorial of a number.

4. Write a program in C to find the sum of first 20 even numbers.

5. Write a program in C to find out the number of times a particular character used in a sentence.

6. Write a program in C to convert (A + B – C) (D + E) (x * y/z) into its equivalent post fix notation.

7. Write a program in C to write a name given below
Input = Narayan Chandra Das To output = Mr. N.C. Das

P-II(1+1+1)G/(Pr.)/12

2012

COMPUTER SCIENCE (General)

Sixth Paper

(Practical)

Full Marks : 50 Time : Three Hours

The figures in the margin indicate full marks.

Answer any *one* question on lottery basis.

(Practical = 35, Viva-voce = 15).

(Algorithm and flow chart are necessary).

1. Write a program in C to find out the location of an integer from a list of ten items using linear search.

2. Write a program in C to find out the GCD of two numbers.

8. Write a program in C to find out the sum of first 10 fibonacci numbers.

9. Write a program in C to generate all the Armstrong numbers between 100 to 9999.

10. Write a program in C to generate Flyod's triangle.

11. Write a program in C to generate Pascal's triangle.

12. Write a program in C to multiply two 4 × 4 matrices.

13. Write a program in C to convert an octal number into a binary number.

14. Write a program in C to find S in the following series:

$$S = 1 + (1+2) + (1+2+3) + (1+2+3...n) + ...n$$

15. Write a program in C to find the sum of first 10 natural numbers which are divisible by 5.

16. Write a program in C to check whether a word is palindrome or not.

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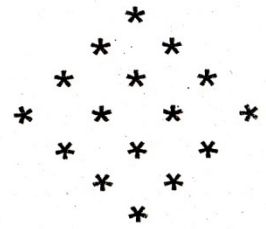
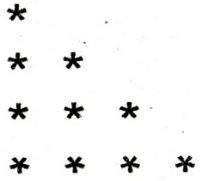
3. Write a program to print this series



4. Write a C program to print this series.



5. Write a C program to multiply two matrices.

2013

COMPUTER SCIENCE (General)

Sixth Paper

(Practical)

Full Marks : 50 Time : Three Hours

The figures in the margin indicate full marks.

Answer *one* question on lottery basis.

Algorithm and Flowchart are must.

Practical - 40

Viva-voce - 10

1. Write a C program to convert Decimal to hexadecimal.

2. Write a C program to print the series and sum of the series.

$$\frac{1}{1!}+\frac{1}{2!}+\frac{1}{3!}+\frac{1}{4!}+\ldots\ldots\frac{1}{n!}$$

6. Write a C program to generate all the armstrong no less than 1000.

7. Write a C program to sort n numbers in descending order using selection sort algorithm.

8. Write a C program to add & subtract two matrices.

9. Print Sin Series and sum of the series —

$$\sin(x) = x - x^3/3! + x^5/5! - x^7/7!$$

10. Write a C program to check whether a string is palindrome or not.

11. Write a C program to calculate GCD and LCM of two numbers.

12. Compute the binomial coefficient ${}^nC_r = \frac{\angle n}{\angle n - r . \angle r}$.

13. Write a C program to implement stack operation using array.

14. Write a C program to check whether a no. is armstrong or not.

15. Write a C program to generate Pascal's triangle.

2. Write a C program to sort ten numbers using quick-sort technique.

3. Write a C program to print fibonacci series using recursion.

4. Write a C program to print the following :

$$1+\frac{x}{2}+\frac{x^2}{3}+\frac{x^3}{4}+\ldots=\text{sum}$$

Find out the sum of above series.

5. Write a C program to sort ten nos. using merge-sort technique.

6. Write a C program to find out sum of digits of a given nos.

Example : 1 2 3 → 6.

P- II (1+1+1)G/Pr/14

2014

COMPUTER SCIENCE (General)

Sixth Paper

(Group - B)

[Practical]

Full Marks : 50 Time : Three Hours

(Program : 25, Algorithm or Flowchart : 10, Viva : 15)

The figures in the margin indicate full marks.

Answer any *one* question on lottery basis.

(Write an algorithm or flow-chart of your program)

1. Write a C program to print : (when $n = 4$)

```
1
0 1
1 0 1
0 1 0 1
```

7. Write a C program to find out prime nos. into 100 to 500.

8. Write a C program to print :

```
1                 1
1 2             2 1
1 2 3         3 2 1
1 2 3 4     3 2 1
```

9. Write a C program to sort ten nos. using selection sort technique.

10. Write a C program to implement binary search technique using example.

11. Write a C program to implement PUSH and POP operation into a stack.

12. Write a C program to sort your name.

Like : Rahul Kumar Roy → R. K. Roy.

13. Write a C program to count no. of vowel, consonant in a given string.

14. Write a C program to count no. of word and character in a given string.

15. Write a C program to sort ten nos. using Insertion sort techniques.

16. Write a C program to find out value of a quadratic equation.