

Assignment of Computer Science

B.Sc. Part-II

Friday to Saturday

Time 12.30 to 2.10pm

Sanjay Kumar Tiwari

- 1) Program to find a root of non-linear equations using bisection method.
- 2) Program to find a root of non-linear equations using the false position method.
- 3) Program to find a root of non-linear equations using the Newton-Raphson method.
- 4) Write a program to calculate factorial of a number. Where number is being entered by user.
- 5) Write a program to find the sum of first ten natural numbers using recursion.
- 6) Write a program to input an array of five elements and print that array.
- 7) Write a program which shows the marks of 5 students in an array and then print out the marks. The marks of students are 75, 85, 80, 95, 90.
- 8) Write a program for traversing of an array.

9) Write a program for bubble sort.

10) Write a program to insert an element in an array.

11) Programme to sort element of an array using insert sort technique.

12) Write a program which read two matrix & then point a matrix which is addition of two matrix.

13) The following table given the population of males at a different age groups of the India and UK at the time of century 1931

Age groups	0-5	5-10	10-15	15-20	20-25	25-30
Year	30-35	35-40	40-45	45-50		

India	214	250	222	157	145	161
In Lakh	257	154	120	100		

UK	18	19	20	18	16	14	27
In Lakh	28	19	17				

Compare the arrange age of males in two countries and account for the different if any.

14) Find the mean, mode and median of the following information

Weges	70-80	80-90	90-100	100-110	110-120	120-130	130-140	140-150
No of Perso	12	18	35	42	50	45	20	8

15) The following table show the marks obtain by student in on examination

Mark Obtain	No of Student
More than 0	250
" " 10	244
" " 20	230
" " 30	200
" " 40	165
" " 50	135
" " 60	70
" " 70	33
" " 80	10
" " 90	0

1. Calculate G.M. & H.M.
2. Compute the value of a_2 , a_3 , p_2 & p_{75}
3. Calculate the mean deviation from median
4. Calculate the standard deviation

16) The following data shows the marks obtained by student in an examination.

Mark Obtain	No of Student
More than 10	10
" " 20	43
" " 30	116
" " 40	205
" " 50	326
" " 60	426
" " 70	501
" " 80	546
" " 90	561
" " 100	580

Calculate then-

1. Central moments up to 4th order
2. Person β_1 & β_2 co-efficient
3. Person Y_1 & Y_2 co-efficient
4. Comment on your findings

17) Calculate Karl Pearson co-efficient of co-relation between capital employed by affirm into successive years together with the profit made in each year both in crores rupees from the data given below

Capital	Profit
10	2
20	9
30	8
40	5
50	10
60	15
70	14
80	20
90	22

100	30
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Also obtained the regression line.