

2022

BCA

[HONOURS]

(CBCS)

(B.Sc. Fifth Semester End Examination-2022)

PAPER-C12P (Practical)

Full Marks: 20

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Answer any one question

1x15=15

1. Create a *csv* file with the following contents :

Sugar (in gm),	LDL Cholesterol
20,	50,
40,	60,
50,	75,
80,	90,
100,	110,
150,	150,
200,	240,
250,	300,

Write a R program to read the above *csv* file and use the linear regression to find cholesterol level for 350 gm sugar consumption.

(2)

2. Write a R program to read the current time in your system and display the Time zone, Time and date separately.

3. Create a csv file with the following contents :

Cricketer,	2021,	2022,
Surya,	550,	1050,
Hardik,	1120,	950,
Virat,	1020,	998,
Rohit,	990,	850,

Write a R program to read the above csv file and gather the runs scored by cricketers in two years and show them row-wise.

4. Create a data frame with the following contents :

Name	Year
Droupadi Murmu	2022-till date
Ramnath Kovind	2017-2022
Pranab Mukherjee	2012-2017

Write a R program to separate Name field into two columns: First Name and last name.

5. Create a two data sets as shown below.

Name	C11T	12T
Anita	64	58
Bandita	52	68
Nandita	71	65
Ranita	44	56

Name	DSE1T	DSE2T
Anita	54	68
Bandita	62	48
Nandita	61	60
Ranita	54	63

Write a R program to join the two data sets.

(3)

6. Create a two data sets as shown below.

Name	C11T	12T
Anita	64	58
Bandita	52	68
Nandita	71	65
Ranita	44	56

Write a R program to create a new field Total that adds marks of C11T and C12T in the above dataset.

7. Write a R program to plot $\sin(x)$, $\cos(x)$ functions from $\pi - \pi$

8. Write a R program to display the following triangle.

```
*  
* *  
* * *  
* * * *
```

9. Write a R program to read a vector and compute it's mean and median.

10. Write a R program to read a vector and compute it's variance and standard deviation.

11. Write a R program to create a data frame using two given vectors and display the duplicated elements and unique rows of the said data frame.

12. Write a R program to find row and column index of maximum and minimum value in a given matrix.

13. Import an excel file in R and then convert each column into a list of vectors.

2022

BCA

[HONOURS]

(CBCS)

(B.Sc. Fifth Semester End Examination-2022)

PAPER-C12P (Practical)

Full Marks: 20

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Answer any one question

1x15=15

1. Create a *csv* file with the following contents :

Sugar (in gm),	LDL Cholesterol
20,	50,
40,	60,
50,	75,
80,	90,
100,	110,
150,	150,
200,	240,
250,	300,

Write a R program to read the above *csv* file and use the linear regression to find cholesterol level for 350 gm sugar consumption.