

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

MCom DEGREE EXAMINATION DECEMBER 2023  
(Third Semester)

Branch – COMMERCE WITH COMPUTER APPLICATION

DATA VISUALIZATION

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. R is technically much closer to the Scheme language than it is to the original \_\_\_\_\_ language.  
i) B            ii) C            iii) C++            iv) S
2. \_\_\_\_\_ is used to break the execution of a loop.  
i) next            ii) skip            iii) break            iv) delete
3. Lists can be coerced with which function?  
i) As.lists            ii) Has.lists            iii) In.lists            iv) Co.lists
4. The size of the margins is controlled by the argument \_\_\_\_\_.  
i) Mai            ii) Sai            iii) Lai            iv) Jai
5. \_\_\_\_\_ gives the length and height of the current figure in inches.  
i) Din            ii) Fin            iii) Sin            iv) Cin

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Examine R objects and attributes.  
OR  
b) Discuss about vector arithmetic with example.
7. a) What do you mean matrices? Explain.  
OR  
b) Discuss about combining variable with c.
8. a) Determine attach() and detach() functions.  
OR  
b) Evaluate working with data frames.

Cont...

9. a) Explain in details about understanding plots.  
OR  
b) Discuss about line graph with example.
10. a) Evaluate low level plotting commands.  
OR  
b) Examine hershey vector fonts.

**SECTION -C (30 Marks)**

Answer any **THREE** questions  
**ALL** questions carry **EQUAL** Marks

(3 x 10 = 30)

11. Enumerate R console input and evaluation.
12. Determine looping statements with example.
13. Enumerate accessing build in datasets.
14. Explain in details about common arguments to chart functions.
15. Elucidate interacting with graphics.

Z-Z-Z END