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1257

Your Roll No.

B.Sc. (Hons.) / II

A

CHEMISTRY – Paper XII(a)

(Computers and their Applications to Chemistry)

Time : 1 Hour

Maximum Marks : 25

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Attempt all questions.

1. Write the full form of the following abbreviations :

(i) MODEM

(ii) CPU

(iii) RAM

(iv) OCR

(v) VDU

(5)

2. Give the output of the following statements :

LET X\$ = "DELHI UNIVERSITY"

A\$ = LEFT\$(X\$,7)

B\$ = RIGHT\$(X\$,4)

C\$ = MID\$(X\$,4,7)

P.T.O.

L = LEN(X\$)

PRINT A\$

PRINT B\$

PRINT C\$

PRINT L (4)

3. Explain the following functions with the help of an example :

(i) LOG

(ii) RND

(iii) INT (3)

4. Write DOS commands for :

(i) Viewing the contents of a directory widthwise

(ii) Creating and then removing a directory
"NOTES" in drive C (2)

5. Evaluate M if

$$M = (2C5)_{16} \quad (1)$$

6. Indicate the error in the following and write the corrected statement.

(i) FOR X = 1 - 10 STEP 1

(ii) $4N = (X^2 + 1)$ (2)

7. Draw the output of the following statements and write the coordinates of the VIEW on it.

10 CLS

20 SCREEN 1

30 VIEW (20,20) - (200, 180), , 1

40 END

(2)

8. Write the BASIC expression for the following :

$$(i) E_j = \frac{J(J+1)h^2}{8\pi^2I}$$

$$(ii) JT = \frac{1}{C_p} \left[\frac{2a}{RT} - b \right] \quad (2)$$

9. Write a user friendly program to generate the first 'N' terms of the Fibonacci series :

0, 1, 1, 2, 3, 5, 8.....

The user should have the choice to select the value of 'N'. (4)