2024

COMPUTER SCIENCE

B.Sc. First Semester End Examination - 2024

PAPER - MI01T

Computer Fundamentals and C Programming (Minor)

Full Marks : 40   *Time : 2 hours*

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.

Group- A

1. **Answer any Five questions of the following :   5×2=10**

    a) What is primary memory?

    b) What do you mean by recursion?

    c) What is the significance of main () in C program?

    d) What is register?

    e) Write the differences between free software and open source software.

    f) What do you understand by cloud computing?

    g) Why cache memory is required?

(Turn Over)

h) What is meant by a download speed of 1 Mbps of a computer network?

Group - B

Answer any Four questions of the following : 4×5=20

2. What are the different types of operators in C programming language? Briefly explain any two of them. 1+2+2

3. a) What is 1's and 2's complement method?
   b) What is high level language?
   e) What is analog computer? [(1+1)+2+1]

4. Explain the memory hierarchy of a computer.

5. Write the main task of an operating system.

6. What do you understand by data mining? Give one practical example where data mining is useful. 3+2

7. How and where OCR system is used? Write difference between printer and plotter. 3+2

Group -C

Answer one One question of the following : 1×10=10

4. a) What are the different types of loops in C programming language? Briefly describe each such loop with a suitable example.

b) What is the main task of SMPS?

c) If the speed of the process as in a computer in much higher than the speed of the RAM, what problem will you face? What measurements will you take?

5. a) How virus is different from malware? How can virus enter the computer system?

   b) What is extension name of a file? How do you display/hide extension name in windows environment?

   c) Compare the utility of LAN and WAN. 4+3+3