(4)

- 3. Answer any one question :
 - (a) Write a C program to search an element in a list.
 - (b) Write a C program to display the Fibonacci series up to the limit *n*.

[Internal Assessment—5+5]

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PG/2nd Sem/COS-204/24

2024

M.Sc. 2nd Semester Examination

Computer Science

PAPER : COS-204

(Computer Fundamentals)

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.

Answer from both the Sections

SECTION-A

(M1/Marks : 20)

(Computer Fundamentals)

- **1.** Answer any **two** questions : $2 \times 2=4$
 - (a) What is a computer?
 - (b) Define bit, byte and nibble.
 - (c) Find the value of X, where $(23)_{10}$ (X)₂.
 - (d) Write the different types of memory of a digital computer.

PG/2nd Sem/COS-204/24 BI

BL24/5(121)—150

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/993

(Turn Over)

(2)

- 2. Answer any two questions : 4×2=8
 - (a) What are the characteristics of a digital computer? Explain. 4
 - Find the decimal equivalent of the (b) following : 2+2=4(i) (2614)₈
 - (*ii*) (7)₁₆
 - Describe different types of computer (c)based on applications. 4
 - Write a short note on real-time (d)operating system. 4
- 3. Answer any one question : 8
 - (a) With the help of a block diagram explain the different components of a computer system.
 - Write down the answer of the following : 8 (b)
 - (i) $(777)_8$ (?)₂
 - (ii) (11111)₂ (?)₁₆
 - (iii) $(11111)_{16}$ $(?)_2$
 - (iv) (1020)₁₀ (?)₈

(Continued)

(3)

SECTION-B

(M1/Marks : 20)

- **1.** Answer the following questions (any **two**) : $2 \times 2 = 4$
 - Write four keywords used in C (a) programming.
 - What are the advantages of using the (b)function in a C program?
 - What is the difference between a 'while' (c)and a 'do-while' loop?
 - Write four properties of an array. (d)
- **2.** Answer the following questions (any **two**) : $4 \times 2 = 8$
 - (a) Describe the conditional operator with a proper example.
 - Explain any of the loop with a proper (b) diagram.
 - (c)Describe the break and continue statements.
 - (d) Write a C program to check leap year or not.

/993

8

/993

(Turn Over)