

031CSC011 – F – 24 – 6350



FIRST SEMESTER B.SC. (NEP) DEGREE EXAMINATION, FEBRUARY 2024

COMPUTER SCIENCE

Problem Solving Techniques and Algorithms (DSC – 1)

Time : 2 Hours]

[Max. Marks : 60

Instruction : Answer *all* Sections based on Internal choice.

SECTION – A

(5×2=10)

I. Answer **any five** questions. **Each** carries 2 marks.

- 1) List out the characteristics of Computer.
- 2) What is Compiler ?
- 3) What are variables ?
- 4) What is shorthand operator ? Give an example.
- 5) Write the usage of the break and continue.
- 6) Define recursion.

SECTION – B

II. Answer **any four** of the following. **Each** question carries 5 marks. (4×5=20)

- 7) Write the structure of C program.
- 8) Write the use and syntax of Ladder if else statement with example.
- 9) Write a C program for finding even and odd numbers.
- 10) How to declare and initialize an array ? Explain with an example.
- 11) Write a program for exchanging of two numbers.

SECTION – C

III. Answer **any 3** questions. **Each** carries 10 marks. (3×10=30)

- 12) Explain all the different types of Operators in C.
- 13) What is looping ? Explain looping control structures.
- 14) Explain different types of string handling functions.
- 15) Write the Flow chart and Algorithm for Generating Fibonacci Sequence.

