



I Semester B.A./B.Sc. Examination, May 2022  
(NEP – 2021 – 22 and Onwards Scheme)  
**COMPUTER SCIENCE (Open Elective)**  
**Journey into the Fundamentals and C Programming Concepts**

Time : 2½ Hours

Max. Marks : 60

**Instruction** : Answer **any four** questions from **each Part**.

PART – A

I. Answer **any four** questions. **Each** question carries **two** marks. **(4×2=8)**

- 1) Define Software. Mention its types.
- 2) Differentiate between compiler and interpreter.
- 3) Define operating system. Give one example.
- 4) Define Virus. Give an example of antivirus software.
- 5) What is an escape sequence ? Give an example.
- 6) Differentiate between break and continue statements.

PART – B

II. Answer **any four** questions. **Each** question carries **five** marks. **(4×5=20)**

- 7) Explain the types of viruses.
- 8) Convert  $6EBA_{(16)}$  to its binary and octal equivalent.
- 9) Explain the various file and folder operations.
- 10) Write the rules for naming an identifier.
- 11) Write a C program to check whether a number is odd or even.
- 12) Explain the various relational operators in C.

PART – C

III. Answer **any four** questions. **Each** question carries **eight** marks. **(4×8=32)**

- 13) a) Explain the various symbols used in flowchart. **4**
- b) What is OSS ? Write its features. **4**

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- 14) a) Define radix of a number system. Explain about hexadecimal and binary number system. 5
- b) What is number system ? Mention its types. 3
- 15) a) Explain the functions of operating system. 5
- b) What is notepad ? Mention the uses of notepad. 3
- 16) a) List out the various types of constants used in C. 4
- b) Explain in brief the default icons of windows desktop. 4
- 17) a) Explain the basic structure of C program. 6
- b) Define a variable. Write the syntax to initialize a variable. 2
- 18) a) Explain switch statement with an example. 4
- b) Differentiate between while and do-while loops. 4

PART - B

(4x5=20)

- II. Answer any four questions. Each question carries five marks.
- 7) Explain the types of viruses.
  - 8) Convert 6EBA<sub>16</sub> to its binary and octal equivalent.
  - 9) Explain the various file and folder operations.
  - 10) Write the rules for naming an identifier.
  - 11) Write a C program to check whether a number is odd or even.
  - 12) Explain the various relational operators in C.

PART - C

(4x8=32)

4

4

- III. Answer any four questions. Each question carries eight marks.
- 13) a) Explain the various symbols used in flowchart.
  - b) What is O/S ? Write its features.