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## NEPVA—4011—2024

### FACULTY OF SCIENCE AND TECHNOLOGY

#### B.Sc. (NEP) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

COMPUTER SCIENCE

Paper SCSCCT-1101

(Fundamentals of Computer Science)

(Tuesday, 17-12-2024)

Time : 10.00 a.m. to 12.00 noon

Time—Two Hours

Maximum Marks—40

Note :— (i) Q. No. 1 is compulsory.

(ii) Solve any *three* questions from Q. No. 2 to Q. No. 6.

(iii) Assume suitable data, if necessary.

1. Solve the following :

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(a) What is computer ? Explain the concept of algorithm.

(b) Explain working of mouse.

(c) Explain binary number system.

(d) Describe the features of Windows operating system.

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2. Answer the following : 10
- (a) Explain in detail block diagram of computer.
  - (b) Explain various types of memories.
3. Answer the following : 10
- (a) Explain any *two* output devices.
  - (b) Explain data scanning devices.
4. Answer the following : 10
- (a) Explain octal and hexadecimal number system.
  - (b) Explain BCD codes.
5. Answer the following : 10
- (a) What is software ? Explain types of softwares.
  - (b) What is operating system ? Explain its functions.
6. Write short notes on (any *two*) : 10
- (a) Flowchart
  - (b) Printer
  - (c) ASCII codes
  - (d) DOS commands.

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