

B.C.A Semester - 1 (NEP-2020) Examination**OCT/NOV-2025****Computer Fundamentals & emerging technology (Multidisciplinary course)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1 Answer the following question. (Any Two) (10)

- 1) Draw Block diagram of computer and explain it in detail.
- 2) Explain 3rd Generation Computer.
- 3) Differentiate between: RAM V/s. ROM
- 4) Explain very shortly: UPS, Graphics Card, Network Card, USB Cable, Memory Slot

Que.2 Answer the following question. (Any Two) (10)

- 1) List out input devices and explain any two of them.
- 2) Differentiate between: Impact Printer & Non-Impact Printer.
- 3) Explain OMR in details.
- 4) List out types of monitors and explain about them.

Que.3 Answer the following question. (Any Two) (10)

- 1) What is Hard disk? How it works? Explain in details.
- 2) Write down short note on: Floppy disk
- 3) Explain reading and writing data to and from storage devices.
- 4) Explain USB Pen Drive. How it differs from SD Memory Card?

Que.4 Answer the following question. (Any Two) (10)

- 1) Explain: Assembler, Compiler and Interpreter.
- 2) What is Operating System? Explain their types. Explain any one of them.
- 3) Explain Software Packages and their uses.
- 4) Convert the following.

$$[a] \quad (1010 \ 1111)_2 = (\quad)_{10}$$

$$[b] \quad (7834)_{10} = (\quad)_8$$

Que.5 Answer the following question. (Any Two) (10)

- 1) What is Computer Virus? Explain their types. How can we protect our computer from virus?
- 2) Describe: Cloud Computing. Also explain their characteristic and service models. (IaaS, PaaS, SaaS).
- 3) Explain very shortly: GIS, GPS, Cell Phones, Bluetooth, Wi-Fi.
- 4) Explain GSM? How it works? Also give their uses.
