

**B.C.A Semester - 1 (CBCS) Examination
Oct/Nov-2025 (New Course)**

COMPUTER FUNDAMENTALS & EMERGING TECHNOLOGY(CORE)

Time: 2:30 Hours**Marks:70****Instructions:**

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

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- Que.1 (A) Attempt the following. (03)
- 1) CPU stands for_____
 - 2) HDMI stands for_____
 - 3) UPS stands for_____
- Que.1 (B) Attempt the following. (Any two) (06)
- 1) Write characteristics of computer.
 - 2) Explain data processing cycle.
 - 3) Write a note on RAM.
 - 4) What is slot? Explain its types.
- Que.1 (C) Attempt the following. (Any one) (05)
- 1) Describe simple model of computer.
 - 2) Write a note on generations of computer.
- Que.2 (A) Attempt the following. (03)
- 1) MIDI stands for_____
 - 2) CRT stands for_____
 - 3) SGD stands for_____
- Que.2 (B) Attempt the following. (Any two) (06)
- 1) What is an input device? Explain keyboard.
 - 2) Explain game devices.
 - 3) Write a note on flat panel display.
 - 4) Differentiate: Mouse v/s Trackball.
- Que.2 (C) Attempt the following. (Any one) (05)
- 1) What is scanner? Explain its types.
 - 2) Explain types of printers.
- Que.3 (A) Attempt the following. (03)
- 1) Define: seek time.
 - 2) DVD stands for_____
 - 3) OneDrive is offered by_____

- Que.3 (B) Attempt the following. (Any two) (06)
- 1) Write a note on CD.
 - 2) Explain floppy disk.
 - 3) Differentiate: Magnetic storage v/s Optical storage
 - 4) What is cloud storage? Explain with example.
- Que.3 (C) Attempt the following. (Any one) (05)
- 1) Explain hard disk in detail.
 - 2) Write a note on magnetic tape.
- Que.4 (A) Attempt the following. (03)
- 1) 1 byte=_____ bits
 - 2) ASCII stands for_____
 - 3) 1's complement of 10110 is_____
- Que.4 (B) Attempt the following. (Any two) (06)
- 1) Differentiate: Compiler v/s Interpreter.
 - 2) Write a note on parity check.
 - 3) Using 1's complement Calculate: 1100-1000.
 - 4) List various software packages. Explain anyone.
- Que.4 (C) Attempt the following. (Any one) (05)
- 1) Explain types of operating system.
 - 2) Explain types of languages.
- Que.5 (A) Attempt the following. (03)
- 1) GIS stands for_____
 - 2) GPS stands for_____
 - 3) GSM stands for_____
- Que.5 (B) Attempt the following. (Any two) (06)
- 1) Write applications of GPS.
 - 2) Write a note on VoLTE.
 - 3) Explain blue tooth technology.
 - 4) What is LiFi? How it works?
- Que.5 (C) Attempt the following. (Any one) (05)
- 1) What is cloud computing? Explain its service models.
 - 2) Write a note on virus.
