

B.C.A Semester - 1 (CBCS) Examination**Nov./Dec. -2018 (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. What is microcomputer?
 2. Give the full form : ALU
 3. What is the basic use of UPS?
- [B] Attempt any two. (06)
1. List various secondary storage devices. Explain any one.
 2. Write short note on: Motherboard.
 3. Write in brief: Data Processing Cycle.
 4. Explain hybrid computers.
- [C] Attempt any one. (05)
1. Describe the characteristics of computers.
 2. Explain: simple model of computer.
- Que-2 [A] Attempt the following. (03)
1. Write the full form : OLED
 2. Give the example of impact printer.
 3. Write the main use of SGD.
- [B] Attempt any two. (06)
1. Write short note on: Google Glass.
 2. List various scanners. Explain any one.
 3. What are plotters? What is their main use?
 4. Differentiate between: impact printer and non-impact printer.
- [C] Attempt any one. (05)
1. List various input devices. Explain any one.
 2. Explain: MIDI keyboard.
- Que-3 [A] Attempt the following. (03)
1. Give full form of USB.
 2. What is a cluster on disc?
 3. What is Blue-Ray disc?
- [B] Attempt any two. (06)
1. What do you mean by Response time? Explain with example.
 2. Write in brief: flash memory.
 3. Explain: Seek Time.
 4. Explain with example: cloud storage.
- [C] Attempt any one. (05)
1. List various magnetic storage devices. Explain any one.
 2. Explain with diagram: storage mechanism of magnetic storage devices.
- Que-4 [A] Attempt the following. (03)
1. Give full form: ASCII
 2. What is Sign Bit?
 3. What is the main function of compiler?

- [B] Attempt any two. (06)
1. List various numbering systems. Explain Octal numbering system.
 2. List various types of languages. Explain any one.
 3. Write a short note on: Animation Packages.
 4. Explain giving example: Real time Operating System.
- [C] Attempt any one. (05)
1. List various binary arithmetic operations. Explain any one with example.
 2. Explain giving example: parity check.
- Que-5 [A] Attempt the following. (03)
1. Give full form: GPS
 2. Write main function of Blue Tooth.
 3. What is Saas?
- [B] Attempt any two. (06)
1. Write short note on GSM.
 2. List various Service Models of Cloud Computing. Explain any one.
 3. Explain how we can protect our device from virus.
 4. Explain with advantages and disadvantages: Infrared technology.
- [C] Attempt any one. (05)
1. What is virus? List and explain various types of virus.
 2. List various communication devices. Explain any one.
