

B.Sc.(IT) Semester - 1 (CBCS) Examination**Oct/Nov-2024 (As Per Syllabus Year June-2018)****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) Answer the following questions. (All three) (03)
1. What is Computer?
 2. Give Full Form: ROM
 3. Give Full Form: CPU
- Que. 1(B) Answer the following question. (Any two) (06)
1. Give Difference: SRAM V/s. DRAM
 2. Describe shortly: USB port.
 3. Explain Graphics Card in detail.
 4. Explain characteristics of Computer shortly.
- Que. 1(C) Answer the following question. (Any one) (05)
1. Draw Block diagram of computer and explain it in detail.
 2. Explain: 4th Generation Computer.
- Que. 2(A) Answer the following questions. (All three) (03)
1. Give Full Form: OCR
 2. Give definition: Mouse
 3. Give definition: Touch Screen
- Que. 2(B) Answer the following question. (Any two) (06)
1. Explain Headphone.
 2. What is Point of Sale (POS)? Explain it.
 3. Describe: LED Monitor.
 4. Explain Speech Generating Device.
- Que. 2(C) Answer the following question. (Any one) (05)
1. Give difference between "Impact Printer" and "Non-Impact Printer".
 2. Write a short note on: Ink Jet Printer.
- Que. 3(A) Answer the following questions. (All three) (03)
1. Give Full Form: FAT
 2. What is Track?
 3. Give Full Form: USB
- Que. 3(B) Answer the following question. (Any two) (06)
1. Explain Seek Time and Rotation Delay.
 2. What is Cloud Storage? Also explain Google Drive.
 3. Write down short note on: Magnetic Tape
 4. Describe: Pen Drive.
- Que. 3(C) Answer the following question. (Any one) (05)
1. Give the difference between CD, DVD and Blue-Ray Disk.
 2. What is Hard Disk? How it works? Explain in details.
- Que. 4(A) Answer the following questions. (All three) (03)
1. Convert: $1101_2 = \underline{\hspace{2cm}}_8$
 2. Give Full Form: KB
 3. Base of Hexa-Decimal Number System is .

- Que. 4(B) Answer the following question. (Any two) (06)
1. Explain 1's Compliments and 2's Compliments of Binary Number.
 2. What is ASCII? Explain it.
 3. Explain: Machine Level Language, Assembly Level Language and High-Level Language.
 4. Explain Presentation Packages.
- Que. 4(C) Answer the following question. (Any one) (05)
1. What is Operating System? Explain Online and Real Time Operating System in detail.
 2. Explain: Assembler, Compiler and Interpreter.
- Que. 5 (A) Answer the following questions. (All three) (03)
1. Give Full Form: Wi-Fi
 2. Give Full Form: GPS
 3. Define: Cell Phones.
- Que. 5 (B) Answer the following question. (Any two) (06)
1. Write in detail about "Li-Fi" technology.
 2. What is "Modem"? How it works? Explain it.
 3. Write in detail about "Wi-Fi" technology.
 4. Write a short note: Bluetooth.
- Que. 5 (C) Answer the following question. (Any one) (05)
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).
