

P.G.D.C.A Semester - 1 (CBCS) Examination
OCT/NOV-2025 (AS PER SYLLABUS YEAR JUNE-2023)
Comp. Fundamentals & Emerging Tech. (Core (New-23))

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 fours) (04)
- (1) What is Processor?
 - (2) Give Full Form : EPROM
 - (3) Give Full Form : MSI
 - (4) Define : Network Card.
- Que.1(B) Answer the following questions. (any two) (10)
- (1) Write a short note on Output Devices.
 - (2) Describe : Characteristics of Computer.
 - (3) Explain : 5th Generation computer.
 - (4) Draw Block diagram of computer and explain it in detail.
- Que.2(A) Answer the following questions. (All fours) (04)
- (1) Give Full Form : POS
 - (2) Give definition : Wireless Keyboard
 - (3) Give definition : Touch Screen
 - (4) Explain : Headphone
- Que.2(B) Answer the following questions. (any two) (10)
- (1) Explain OMR. Where they used?
 - (2) Write a short note on : Laser Printer.
 - (3) Describe : LED Monitor.
 - (4) Give difference between “impact printer” and “non-impact printer”.
- Que.3(A) Answer the following questions. (All fours) (04)
- (1) Give Full Form : USB
 - (2) What is Cloud Storage?
 - (3) What is Seek Time?
 - (4) Give Full Form : CD-ROM
- Que.3(B) Answer the following questions. (any two) (10)
- (1) Write down short note on : Magnetic Tape.
 - (2) Give the difference between CD, DVD and Blue-Ray Disk.
 - (3) Describe : Pen Drive.
 - (4) What is Hard disk? How it works? Explain in details.
- Que.4(A) Answer the following questions. (All fours) (04)
- (1) Convert : $101011_2 = \underline{\hspace{2cm}}_8$
 - (2) Convert : $BD23_{16} = \underline{\hspace{2cm}}_2$
 - (3) Give Full Form : EBCDIC
 - (4) Calculate : $111000 + 010100 = \underline{\hspace{2cm}}$

Que.4(B) Answer the following questions. (any two) (10)

- (1) Explain : Assembler, Compiler and Interpreter.
- (2) What is ASCII Code? Explain it in details.
- (3) Explain : Machine Level Language, Assembly Level Language and High Level Language.
- (4) What is Operating System? Explain Online and Real Time operating system in detail.

Que.5(A) Answer the following questions. (All fours) (04)

- (1) What is Cyber security?
- (2) Define : Bluetooth
- (3) Define : Blockchain.
- (4) Define : Cell Phones.

Que.5(B) Answer the following questions. (any two) (10)

- (1) Write in detail about “Wi-Fi” technology.
- (2) Explain Basic cryptography (symmetric, Asymmetric, hash functions) in Cyber security.
- (3) What is Computer Virus? Explain their types.
- (4) Describe : Cloud Computing with their characteristic. Also explain their service models. (IaaS, PaaS, SaaS).
