



Seat No. \_\_\_\_\_

**F2Z-003-3031003**

**B. C. A. (Sem I) (CBCS)  
(W.E.F. 2022) Examination**

**December - 2022**

**CS-03 : Computer Fundamentals &  
Emerging Technology  
(New Course)**

**Faculty Code : 003**

**Subject Code : 3031003**

**Time : 2½ Hours / Total Marks : 70**

**Instructions :** Attempt all the questions.

- 1 (a) Answer the following : 4
- (1) Which component is the heart of the CPU?
  - (2) Full form of EEPROM.
  - (3) Which technology is used in the 3rd generation?
  - (4) Full form of ENIAC.
- (b) Answer any one of the following : 2
- (1) List technologies used in each generation.
  - (2) List all types of memory.
- (c) Answer any one of the following : 3
- (1) Give classification of computers by processing capabilities.
  - (2) Explain types of ROM in detail.
- (d) Answer any one of the following : 5
- (1) Explain block diagram of the computer.
  - (2) Explain types of slots in brief.
- 2 (a) Answer the following : 4
- (1) Full form of DVD.
  - (2) Full form of UPS.
  - (3) Numpad had \_\_\_\_\_ keys.
  - (4) 1GB = \_\_\_\_\_ MB.

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- (b) Answer any one of the following : 2
- (1) List pointing devices. Explain any one.
  - (2) List types of storage devices. Explain any one.
- (c) Answer any one of the following : 3
- (1) Explain MIDI.
  - (2) Explain POS in brief.
- (d) Answer any one of the following : 5
- (1) What is an input device ? List all input devices. Explain any two.
  - (2) List types of scanners. Explain any two.
- 3 (a) Answer the following : 4
- (1) What is a pixel ?
  - (2) Which printer uses an electrostatic printing process?
  - (3) Full form of LCD.
  - (4) Full form of COM.
- (b) Answer any one of the following : 2
- (1) Explain OCR.
  - (2) List types of printers.
- (c) Answer any one of the following : 3
- (1) Difference between Impact printer and Non-impact printer.
  - (2) Explain facsimile.
- (d) Answer any one of the following : 5
- (1) Explain CRT with a diagram.
  - (2) Explain non-CRT display units.
- 4 (a) Answer the following : 4
- (1) 1 byte = \_\_\_\_\_ bits.
  - (2) Full form of NB.
  - (3)  $(110101101)_2 = (\text{_____})_{16}$
  - (4) Give 2's complement of  $(1011010)_2$

(b) Answer any one of the following : 2

(1) Convert  $(3574)_8 \rightarrow (\quad)_10$

(2) What is an Interpreter?

(c) Answer any one of the following : 3

(1) Difference between compiler and interpreter.

(2) Attempt following conversation.

(1)  $(983B)_{16} \rightarrow (\quad)_{10}$

(2)  $(7892)_{10} \rightarrow (\quad)_2$

(3)  $(42175)_8 \rightarrow (\quad)_{16}$

(d) Answer any one of the following : 5

(1) What is OS ? Explain types of it.

(2) Attempt following questions :

(1)  $(1111011011)_2 + (1101101101)_2 = (\quad)_2$

(2)  $(110111011)_2 - (10010110)_2 = (\quad)_2$

(3)  $(111010)_2 \times (110)_2 = (\quad)_2$

(4)  $(110101)_2 \div (101)_2 = (\quad)_2$

(5)  $(11011)_2 - (111011)_2 = (\quad)_2$  with 2's complement.

5 (a) Answer the following :

(1) Full form of LiFi

(2) Full form of GSM.

(3) Full form of ATM.

(4) What is Back up?

(b) Answer any one of the following : 2

(1) Explain IR.

(2) Explain Bluetooth.

(c) Answer any one of the following : 3

(1) Explain GIS.

(2) Explain Google Glass.

(d) Answer any one of the following : 5

(1) Explain Cloud computing in detail.

(2) Explain GPS in detail.