

4008-01

Total Pages : 4

Degree (Part-I) Examination, 2023

(Vocational)

BCA

[Paper : First]

[PPU-D-I(H)-BCA-1]

Time : Three Hours]

[Maximum Marks : 75

Note : Candidates are required to give their answers in their own words as far as practicable. Attempt **any five** questions. Question No. 1 is compulsory. All questions carry **equal** marks.

1. Write short notes on the following terms/keywords :

~~(a)~~ RAM

~~(b)~~ Laser Printer

~~(c)~~ Flowchart

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(1)

[P.T.O.]

(d) DASD

(e) RISC

2. (a) Discuss the main characteristic of Computer.
Also draw a block diagram of computer.

(b) Describe the applications of Computer.

3. (a) Differentiate between Impact and Non-impact Printers.

(b) What are the differences between micro and mini Computer?

4. (a) Convert the following :

(i) $(A8)_{16} = (\dots)_{10}$

(ii) $(456)_8 = (\dots)_2$

(iii) $(129)_{10} = (\dots)_2$

(iv) $(11011.01)_2 = (\dots)_{10}$

(v) $(72.25)_{10} = (\dots)_2$

(b) Perform binary subtraction of the following binary number :

(i) 111000, 011010

(ii) 1111, 1001

(iii) 0110, 0010

(iv) 11010, 01011

(v) 101011, 010010

~~5.~~ (a) What are the differences between compiler and interpreter?

~~(b)~~ Differentiate between ASCII and BCD Coding.

6. (a) Discuss the architecture of 8086 microprocessor.

(b) Define DMA Controller.

~~7.~~ (a) Define ROM and its types.

(b) Discuss the features of secondary memory.

8. (a) Describe the fourth generation computers.
- (b) Write any five internal and external commands of DOS.
9. (a) Define an Algorithm with suitable example.
- (b) Write a program in QBasic to enter a number and check whether the number is prime or not.
10. (a) What are the differences between assembly and high-level languages.
- (b) Differentiate between on-line processing and real time processing.

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