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Printed Pages: 4

Degree (Part-I) (Vocational) Examination, 2020

(Honours)

BCA

[Paper: First]

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

Time: Three Hours

[Maximum Marks: 75

Note: Attempt any five questions in all. All the questions are of equal value. Question No. 1 is compulsory.

- 1. Write short notes on the following terms / keywords:
 - (a) Laser Printer
 - (b) ASCII Coding
 - (c) DOS
 - (d) CISC Technology
 - (e) QBASIC

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(1)

[P.T.O.]

- 2. (a) What are the differences between microcomputer, minicomputer, mainframe computer and supercomputer?
 - (b) Explain in detail the components of computer hardware.
 - (a) List five important registers of the CPU. Also state the purpose of each register.
 - (b) Show the classification of the input devices. Give a description of joystick along with its features.
 - (a) Convert E16, 389, E4.16 and 2A. 1B hexadecimal numbers into decimal numbers.
 - (b) Perform binary subtraction on the following pairs of binary numbers.
 - (i) 111000, 011010
 - (ii) 0110, 0010
 - (iii) 1111, 1001
 - (iv) 1100, 1010

- 5. (a) What are the differences between Compiler and Interpreter?
 - (b) Describe the two categories of system software and give an example of each category.
 - (a) State the purpose of each of the control structures: Sequence, Selection, and Iteration.
 - (b) Write an algorithm and draw a flowchart to find the sum of all odd numbers till 100.
 - 7. (a) Describe the Second generation computer based on the hardware, software, computing characteristics, physical appearance, and their applications.
 - (b) What are the functions of the Arithmetical Logical Unit and Control Unit?
 - 8. (a) Explain the need of the cache memory. State three important features of the cache memory.
 - (b) What is the meaning of Volatile memory? Also give an example of volatile memory with explanation.

6.

- 9. (a) Describe the functionality of a daisywheel printer.
 - (b) What are the differences between impact and Non-impact Printers?
- 10. (a) What is Direct Memory Access (DMA) controller? Describe with a diagram.
 - (b) Describe architecture of 8086 microprocessor with a diagram.

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