23046

BOARD DIPLOMA EXAMINATION, (C-23)

OCTOBER/NOVEMBER—2024

DCME – FIRST YEAR EXAMINATION

BASICS OF COMPUTER ENGINEERING

Time : 3 hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions :   (1) Answer **all** questions.

                 (2) Each question carries **three** marks.

                 (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. Define the terms *(a)* Hardware, *(b)* Software and *(c)* Firmware.

2. Write any three differences between ROM and RAM.

3. List the steps involved in problem solving.

4. Define Operating System and give 2 examples.

5. List any 6 internal DOS commands.

6. What is ISP? List any 3 ISP's.

7. Write any three differences between Internet and Intranet.

8. Define search engine and list any 3 search engines.

9. Define Inductive learning.

10. Write any 5 applications of Machine learning.

PART—B

10×5=50

Instructions : (1) Answer *any* **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. Draw the block diagram of a computer and explain each function.

12. Write an algorithm and draw the flowchart to check the given number is neither divisible by 5 nor by 2, then display meassage as "Number is neither divisible by 5 nor 2".

13. Write the procedure for Installing and Uninstalling a hardware using the control panel.

14. Explain the procedure for changing the resolution, colour, appearance and screen saver options of the display.

15. Explain different connectors used on the motherboard.

16. Explain about LAN and WAN in detail.

17. Explain the following :

(a) Mixed reality, *(b)* Tele existence, *(c)* Tele presence and *(d)* HCI.

18. Explain association rule learning with an example.

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