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C20-CM-105

7025

BOARD DIPLOMA EXAMINATION, (C-20)

JANUARY—2023

DCM – 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 software, hardware and firmware.
2. List various storage devices used in a computer.
3. Define a flowchart. List the symbols used in flowcharts.
- * 4. Write about the steps involved in algorithm development.
5. Define operating system and state the need for an operating system.
6. Write the method of starting a program using start button.
7. What is boot process?
8. Write a short note on BIOS.
9. What is machine learning?
10. List the categories of hackers.

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PART—B

8×5=40

- Instructions :
- (1) Answer all questions.
 - (2) Each question carries eight marks.
 - (3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. (a) Explain the generations of a computer.

(OR)

(b) Explain the classification of computer based on size and processor.

12. (a) Write an algorithm and flowchart to find the area of a triangle.

(OR)

b) Write an algorithm and flowchart to find the largest of three numbers.

13. (a) What is disk defragmentation? Write the procedure for disk defragmentation.

(OR)

(b) Explain the procedure for changing the resolution, colour, appearance and screensaver options of the display.

* 14. (a) Explain about POST and the important beep codes.

(OR)

(b) Explain the role of a modem in accessing the internet.

15. (a) Explain the characteristics of big data.

(OR)

(b) Define the terms related to virtual learning.

- (i) Telepresence
- (ii) Cyberspace
- (iii) Telexistence
- (iv) HCI (Human-Computer-Interaction)

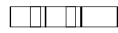
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PART—C

10×1=10

- Instructions :
- (1) Answer the following question.
 - (2) The question carries ten marks.
 - (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. What is web browser? List various types of web browsers and explain them.



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