# с20-см-105

## 7025

#### **BOARD DIPLOMA EXAMINATION, (C-20)**

#### MAY-2023

#### **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 hardware and software.
- **2.** State the roles and responsibilities of processor.
- **3.** Define flowchart. List the features of flowchart.
- **4.** State the need of an algorithm.
- **5.** List the various operating systems used presently.
- **6.** Write the steps involved in changing the date and time in system.
- **7.** Define booting.
- **8.** List any six web browsers.
- **9.** Define inductive learning.
- **10.** Write applications of machine learning.
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PART-B

8

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

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- (2) Each question carries **eight** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

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

#### (OR)

(b) (i) Convert (462) <sub>8</sub> into hexadecimal number system.	2
(ii) Convert (C204) <sub>16</sub> into binary number.	2
(iii) Convert (11010001) <sub>2</sub> into octal number.	2
(iv) Convert (2581) <sub>10</sub> into binary number.	2

**12.** (a) Draw and explain the flowchart to find largest of three numbers. 8

#### (OR)

	(b)	Explain the steps involved in algorithm development with an example.	8			
13.	(a)	Explain disk defragmentation using system tools.	8			
		(OR)				
	(b)	Explain the following commands with an example :				
		(i) DATE	2			
		(ii) REN	2			
		(iii) DEL	2			
		(iv) COPY	2			
14.	(a)	Explain functions of BIOS.	8			
(OR)						

(b)	Explain the role of search engines with examples.	8

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15.	(a)	Explain the characteristics of big data.	8
		(OR)	
	(b)	List and explain the phases in ethical hacking.	8

### **PART—C** 10×1=10

**Instructions**: (1) Answer the following question.

- (2) The question carries **ten** marks.
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- **16.** Explain address formats. How many bits are allocated for Network ID and Host ID in 25.171.150.235 address?

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