

## 7025

# **BOARD DIPLOMA EXAMINATION, (C-20)** JUNE/JULY—2022

#### **DCM - FIRST YEAR EXAMINATION**

### BASICS OF COMPUTER ENGINEERING

Time: 3 hours] [ Total Marks: 80

### PART—A

 $3 \times 10 = 30$ 

- **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 high-level language and low-level language.
  - 2. Write about two types of memory used in a computer.
  - 3. Define algorithm. List the features of an algorithm.
  - Draw the flowchart to display the greater of the two numbers. 4.
  - 5. State the need of operating systems.
  - 6. List any three components of a window.
  - 7. List different types of connectors used in networking.
  - 8. Write any three differences between intranet and internet.
  - 9. List any six applications of ML.
  - 10. State the need for big data.

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## PART—B

Instru	ctio	ns: (1) Answer all questions.	
		(2) Each question carries <b>eight</b> marks.	
		(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.	
11.	(a)	Draw and explain the block diagram of a computer.	
		(OR)	
	(b)	Convert the following numbers into hexadecimal number system:	
		(i) (529) <sub>10</sub>	2
		(ii) (457) <sub>8</sub>	2
		(iii) (1101110101) <sub>2</sub>	2
		(iv) $(5504)_{10}$	2
12.	(a)	Draw and explain flowchart for to check whether the given number is even or odd.	8
		(OR)	
	(b)	Explain in detail the characteristics of an algorithm.	8
13.	(a)	Explain about any ten internal commands.	8
		(OR)	
	(b)	Explain the procedure for changing resolution, colour, appearance, screensaver options of the display.	8
14.	(a)	Explain three types of software in detail.	8
		(OR)	
	(b)	Explain various types of networks in computer networks.	8
15.	(a)	Define ethical hacking. Explain roles and responsibilities of ethical hacker.	8
		(OR)	
	(b)	Explain about inductive learning.	8
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**PART—C**  $10 \times 1 = 10$ 

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

- (2) The question carries ten marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **16.** Write an algorithm and flowchart for the following question: "Accept the name and marks obtained by a student in computers subject. Display the grades as per the table given below."

Marks obtained	Grade
80% or more	A
60% or more but less than 80%	В
40% or more but less than 60%	С
Less than 40%	No Grade

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