QP-Code: 20CS11T

## Makeup Examination Nov/Dec - 2022

## I Semester Diploma Examination

## FUNDAMENTALS OF COMPUTER (20CS11T)

Time: 3 Hours ]	Max. Marks: 100
Instruction: i) Answer ONE full question from each section.	
ii) One full question carries 20 marks.	the second
SECTION - I	
1. (a) Explain different types of number systems.	(10)
(b) Convert the following	(6)
(i) (111000) <sub>2</sub> to ( ) <sub>10</sub>	
(ii) (425) <sub>10</sub> to ( ) 2	
(iii) (147) <sub>8</sub> to ( ) <sub>2</sub>	
(c) Write a note on ASCII code.	(4)
	4.11.45
2. (a) List and Explain basic gates with logic symbol, expressions and	
(b) Develop truth table for 3 inputs OR gate.	(10)
SF 77 N-II	A
3. (a). State and prove Demo, gan's l'orem.	(04)
(b). Differentiate multiplexer and demultiplexer.	(06)
(c). Explain 4:1 multiplexer.	(10)
. (a). Implement decimal to BCD encoder	(10)
(b). Design full adder circuit with truth table.	(10)
(b). Design full adder ensure	
SECTION - III	
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a. Explain the working of a Laser Printer with a neat diagram.	(10M)
a. Explain the working of a Laser 1	(5M)
b. Classify Computers according to purpose.	(5M)
c. List various input and output devices.	

OR

10. a.Explain the different generations of Programming languages.
(10)
b. A user enters the input, write an algorithm to check whether entered input is a character or a number.