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Roll No. : .....

## 322353(22)

## B. E. (Third Semester) Examination, Nov.-Dec. 2021

(New Scheme)

(CSE Branch)

## COMPUTATIONAL SCIENCE

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each unit is compulsory. Attempt any two parts from (b), (c) and (d). Question (a) carry 2 mark, and (b), (c) and (d) carries 7 marks.

## Unit-I

1. (a) What do you mean by Program Design?

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	(b)	Explain modules and modulation criteria.	7		(c)	Explain the concept of LISP programming language.	7
	(c)	Describe the concept of test plan and design guide- lines.	7		(d)	Describe HASKELL programming language and their futures.	7
	(d)	Explain the following:	7			Unit-IV	,
		(i) Design techniques (ii) Structured flow chart		4.	(a)	What is Neuron?	2
		Unit-II			(b)	Explain activation function and single layer network in brief.	7
2.	(a)	Define binding time.	2		(c)	Describe auto associative neural network with	7
	(b)	Describe different structured data types in brief.	7			suitable diagram.	/
	(c)	What do you mean by Encapsulation? Explain it			(d)	Draw nerve structure and explain it in brief.	7
		with storage management.	7			Unit-V	
	. ,	Explain software simulated system in brief.	7	5.	(a)	Define fuzzy set.	2
		of the only man Unit-III			(b)	Explain the flow diagram and principal of genetic	
3.	(a)	Define functional programming language.	2		algorithm.	algorithm.	7
	(b)	Write difference between functional and imperative programming language.	7		(c)	Define fuzzy logic and explain the concept to convert fuzzy to crisp.	7
					(d)	Explain the following	7

- (i) Mutation
- (ii) Properties of fuzzy set

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