Roll No.:....

B022313(022)

B.Tech. (Third Semester) Examination Nov.-Dec. 2021

(AICTE Scheme)

(Computer Science & Engg. Branch)

PRINCIPLES of PROGRAMMING LANGUAGES

Time Allowed: Three hours

Maximum Marks: 100

Minimum Pass Marks: 35

Note: Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d). Part (a) carry 4 marks, part (b), (c) and (d) carry 8 marks.

- 1. (a) What are the modules and modularization criteria for programming language?
 - (b) Explain stepwise refinement design technique.

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	(c)	Explain Pseudo code and flow chart with example.	8	4.	(a)	Explain following
	(d)	Define different levels of abstraction of programming language.	8	28		(i) Abstraction(ii) Polymorphism
2.	(a)	Write down the important characteristics of			(b)	What is static member? Explain with example.
		programming language.	4		(c)	Explain this pointer with the help of example.
		Explain structure and operations of translators in programming language.	8		(d)	Write the differences between new and delete operators.
	(c)	Write down the factors influencing the evolution of programming lanugage.	8	5.	(a)	Explain constructor and destructor in C++
	(d)	Explain Early binding and late binding in language.	8		(b)	Explain following: (i) Friend function
3.	(a)	What is meant by symbolic expression in LISP?	4			(ii) Abstract class
		Explain the programming structure for LISP.	8		(c)	Explain virtual function with example.
	(c)	Explain following:	8		(d)	Explain Exception Handling for a class with an
		(i) Imperative Programming (ii) Functional Programming	1			example.
	(d)	Explain different datatypes available in PROLOG				
		programming language.	8			