C\$063

Vivekananda College of Engineering & Technology, Puttur
[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

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CRM08

program.

Rev 1.10

CSE

18/07/2022

CONTINUOUS INTERNAL EVALUATION - 3

201	MITIMOOOD TIAITI	HAVIE CALIBOTITES			
Dept: CSE	Sem /Div: 6 th A&B	Sub: System Software and Compilers	S Code:	18CS	61
Date:21/07/22	Time: 9:30-11:00 am	Max Marks: 50	Elective:N		
Note: Answer	any 2 full questions, ch	oosing one full quest	ion fron	n each	part.
QN	Questions		Mark	s RBT	CO's
	PA	RTA			
1 a Define synthesized and inherited attributes. Give examples. Write SDD for simple desk calculator and draw the annotated parse tree for the expression: 1*2*3*(4+5)n				L3	CO2,
b Write 3-address code, syntax tree, DAG, quadruples and triples for the instruction: a-a*(b+c)-(b+c)/d			nd 8	L3	CO2,
c Enlist common three address instruction forms.			9	L2	CO2,
		OR			
2 a Explain co	nstruction of syntax tre	e with example.	8	L3	CO2,
b Differentiate between syntax tree and DAG. Explain value number method for constructing DAG.			in 8	L3	CO2,
	e issues in the design of		9	L2	CO2,
	PA	RT B			
3 a Explain th	ne structure of LEX,	with any one examp	ole 8	L2	CO4

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b Define regular expression. Discuss some of the 8 L2 CO4 important regular expressions used in LEX. c Write a LEX Program to eliminate comment lines in a C 9 L3 CO4 program using state concept. Write expected output of your program. OR 4 a Explain the structure of YACC. Write a YACC program L2 CO4 8 to recognize a string belonging to the language L={anb: n > = 0b Explain the use of following built in functions. L2 CO4 8 v) yyparse() i) yylex() vi) yyin yywrap() ii) vii) yyout **ECHO** iii) iv) viii) lex.yy.c yylval c Write a YACC program to evaluate an arithmetic L3 CO4 9

Prepared by:

output of your program.

Roopa G K

expression involving operators +,-,*,/. Write expected