

TE - SPCC Quiz 6

Total points **10/10** ?

FH 2021

Compilers : Synthesis Phase

10 of 10 points



✖ Roll No *

1. 1

2. 2

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79. 79

Correct answer

1



Student Name *

AMEY THAKUR

✓ 1.. A grammar that produces more than one parse tree for some sentence is Which of the following is used for grouping of characters into tokens? * 1/1

- ☒ Lexical analyzer ✓
- ☐ Code optimization
- ☐ Code generator
- ☐ None of the mentioned

✓ 2.Task of the lexical analysis * 1/1

- ☐ none
- ☐ To build a uniform symbol table
- ☐ To build a literal and identifier table
- ☒ Both ✓



✓ 3. An intermediate code form is *

1/1

- ☐ three address codes
- ☐ syntax trees
- ☐ postfix notation
- ☒ all of these



✓ 4. Advantage of panic mode of error recovery is that *

1/1

- ☒ it is simple to implement
- ☐ it never gets into an infinite loop
- ☐ Both
- ☐ None



✓ 5. Some code optimizations are carried out on the intermediate code because *

1/1

- ☐ program analysis is more accurate on intermediate code than on machine code
- ☐ the information from dataflow analysis cannot otherwise be used for optimization
- ☒ they enhance the portability of the compiler to other target processors
- ☐ the information from the front end cannot otherwise be used for optimization



✓ 6. Which one of the following is FALSE? *

1/1

- ☒ $x = 4 * 5 \Rightarrow x = 20$ is an example of common subexpression elimination. ✓
- ☐ A basic block is a sequence of instructions where control enters the sequence at the beginning and exits at the end.
- ☐ Available expression analysis can be used for common subexpression elimination.
- ☐ Live variable analysis can be used for dead code elimination

✓ 7. Consider the following code segment. $x = u - t; y = x * v; x = y + w; y = t - z; y = x * y;$ The minimum number of total variables required to convert the above code segment to static single assignment form is Note : This question was asked as Numerical Answer Type. *

- ☐ 8
- ☐ 6
- ☒ 10 ✓
- ☐ 7

✓ 8. Peephole optimization is form of *

1/1

- ☐ Loop optimization
- ☒ Peephole optimization is form of ✓
- ☐ Constant folding
- ☐ Data flow analysis



✓ 9. Substitution of values for names (whose values are constants) is done in * 1/1

☐ Peephole optimization is form of

☐ Data flow analysis

☐ Loop optimization

☒ Constant folding ✓

✓ 10. Relative to the program translated by a compiler, the same program when interpreted runs * 1/1

☒ Slower ✓

☐ Faster

☐ None

☐ At the Same Speed

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