Started on	Friday, 25 February 2022, 7:01 PM
State	Finished
Completed on	Friday, 25 February 2022, 7:28 PM
Time taken	26 mins 15 secs
Marks	28.00/30.00
Grade	**9.33** out of 10.00 (**93**%)

Question **1**

Correct

Mark 2.00 out of 2.00

Symbol table is created by ....

- a. None of the mentioned
- b. Assembler
- c. Compiler ✔
- d. Interpreter

Your answer is correct.

The correct answer is:
Compiler

Question **2**

Correct

Mark 2.00 out of 2.00

1. Match all items in Group 1 with correct options from those given in Group 2.

Group 1	Group 2
P. Regular expression	1. Syntax analysis
Q. Pushdown automata	2. Code_generation
R. Dataflow analysis	3. Lexical analysis
S. Register allocation	4. Code_optimization

- ◉ a. P-3, Q-1, R-4, S-2 ✔
- ◯ b. P-2, Q-1, R-4, S-3
- ◯ c. P-3, Q-4, R-1, S-2
- ◯ d. P-4. Q-1, R-2, S-3

Your answer is correct.

The correct answer is:
P-3, Q-1, R-4, S-2

Question **3**

Correct

Mark 2.00 out of 2.00

Consider the syntax directed definition shown below.

```
S → id : = E   {gen (id.place = E.place;);}
```

```
E → E1 + E2   {t = newtemp ( ); gen (t = El.place + E2.place;);   E.place = t}
```

```
E → id     {E.place = id.place;}
```

For the statement 'X: = Y + Z', the 3-address code sequence generated by this definition is

○ a. X = Y + Z

○ b. t1 =Y; t2 = t1 + Z; X = t2

◉ c. t1 = Y + Z; X = t1   ✔

○ d. t1 = Y; t2 = Z; t3 = t1 + t2; X = t3

Your answer is correct.

The correct answer is:
t1 = Y + Z; X = t1

Question **4**

Correct

Mark 2.00 out of 2.00

Consider the following Syntax Directed Translation Scheme, what is output printed by a bottom up parser for the input **aab**

○ a. 2 2 1

○ b. Syntax error

◉ c. 2 3 1   ✔

○ d. 1 3 2

Your answer is correct.

The correct answer is:
2 3 1

Question **5**

Correct

Mark 2.00 out of 2.00

Type checking is normally done during

- ○ a. Code optimization
- ○ b. Lexical analysis
- ◉ c. Syntax directed translation   ✔
- ○ d. Syntax analysis

Your answer is correct.

The correct answer is:
Syntax directed translation

Question **6**

Correct

Mark 2.00 out of 2.00

The abstract form of a parse tree is called --------

- ○ a. Binary Tree

- ○ b. Decision tree

- ○ c. Derivation Tree

- ◉ d. Syntax Tree   ✔

Your answer is correct.

The correct answer is:
Syntax Tree

Question **7**

Correct

Mark 2.00 out of 2.00

A parse tree showing the value of attributes at each node is called----------

○ a. Semantic tree

○ b. None of the above

○ c. Syntax tree

◉ d. Annotated parse tree   ✔

Your answer is correct.

The correct answer is:
Annotated parse tree

Question **8**

Correct

Mark 2.00 out of 2.00

Syntax directed translation scheme is desirable because-------

◉ a. It is easy to modify   ✔

○ b. All of the above

○ c. It is based on the syntax

○ d. Its description is independent of any implementation

Your answer is correct.

The correct answer is: It is easy to modify

Question **7**

Correct

Mark 2.00 out of 2.00

Question **9**

Correct

Mark 2.00 out of 2.00

In synthesized attribute, evaluation is done in------------order

- ○ a. None of the above
- ● b. Bottom-up ✔
- ○ c. Top-down
- ○ d. Pre-order

Your answer is correct.

The correct answer is:
Bottom-up

Question **10**

Correct

Mark 2.00 out of 2.00

An SDD that involves only synthesized attributes is called--------

- ○ a. Both A and B
- ○ b. L-attributed
- ● c. S-attributed ✔
- ○ d. None of the above

Your answer is correct.

The correct answer is:
S-attributed

Question 11

Correct

Mark 2.00 out of 2.00

Semantic actions may involve -------

- ○ a. Generation of intermediate code

- ○ b. Printing of an error diagnostic

- ○ c. Computation of values

- ◉ d. All of the above   ✔

Your answer is correct.

The correct answer is:
 All of the above

Question 12

Correct

Mark 2.00 out of 2.00

Symbol tables can be implemented using ....

- ○ a. Linear List

- ○ b. Hash table

- ◉ c. Both a and b   ✔

- ○ d. None of the above

Your answer is correct.

The correct answer is:
Both a and b

Question **13**

Correct

Mark 2.00 out of 2.00

The postfix form of the expression (a+b)*(c-d)/f is ....

○ a. cd-ab_*f/

◉ b. ab+cd-*f/   ✔

○ c. abcd+-f/*

○ d. abcdf+-*/

Your answer is correct.

The correct answer is:
ab+cd-*f/

Question **14**

Correct

Mark 2.00 out of 2.00

Three address codes are implemented using

○ a. Quadruples

○ b. Indirect triples

○ c. Triples

◉ d. All the above   ✔

Your answer is correct.

The correct answer is:
All the above

Question **15**

Incorrect

Mark 0.00 out of 2.00

Identify the correct 3 address code representation for the expression **if e then x else y**

◉ a. e?x:y   ✖

○ b. ex?y

○ c. e?xy

○ d. exy?

Your answer is incorrect.

The correct answer is:
exy?

◄ Quiz 2 (Unit 5) 12-04-2022

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