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Started on	Wednesday, 31 March 2021, 11:30 AM
State	Finished
Completed on	Wednesday, 31 March 2021, 11:55 AM
Time taken	24 mins 59 secs
Grade	**17.75** out of 20.00 (**89**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Find the FOLLOW (B) for the grammar

S→ACB | CbB | Ba

A→da | BC

B→ g | ε

C→ h | ε

○ a.   {a,d,h, $ }

○ b.   {h,g, $}

⦿ c.   { a,g,h, $}   ✔

○ d.   {a,g,h}

The correct answer is: { a,g,h, $}

Question **2**

Correct

Mark 1.00 out of 1.00

YACC builds up _____

- ○ a.   LALR parsing table   ✔
- ○ b.   LL Parsing
- ○ c.   SLR parsing table
- ○ d.   Canonical LR parsing table

The correct answer is: LALR parsing table

Question **3**

Correct

Mark 1.00 out of 1.00

Fing the Trailing of E for the grammar: E→E + E | E * E | (E) | id

- ○ a.   {+, *, (, id }
- ○ b.   {+, *, (}
- ○ c.   {+, *,id }
- ○ d.   {+, *,), id }   ✔

The correct answer is: {+, *,), id }

Question **4**

Correct

Mark 1.00 out of 1.00

Find the GOTO (A) in SLR (1) parsing for the initial iteration of the Grammar;

S→AA

A→aA | b

- a.   S→A.A
- b.   A→ .aA | .b
- c.   S→A.A, A→. aA |. b   ✔
- d.   A→ aA. | b.

The correct answer is: S→A.A, A→. aA |. b

Question **5**

Correct

Mark 1.00 out of 1.00

Associating information with a language construct by attaching attributes to the grammar is termed as------------------

   ○ a.   Semantic Analyzer Definition

   ○ b.   Control Flow Definition

   ◉ c.   Syntax Directed Definition   ✔

   ○ d.   Semantic Definition

The correct answer is: Syntax Directed Definition

Question **6**

Correct

Mark 1.00 out of 1.00

What is the value of f(*) for the operators { id,+,*}

   ◉ a.   4   ✔

   ○ b.   2

   ○ c.   3

   ○ d.   5

The correct answer is: 4

Question **7**

Correct

Mark 1.00 out of 1.00

An intermediate code form is _____

- a. DAG
- b. Postfix notation
- c. Three Address code
- d. All the above ✔

The correct answer is: All the above

Question **8**

Correct

Mark 1.00 out of 1.00

The three address statement for p (x1,x2) is

- a. param x,call p,2
- b. p= call (x1,x2)
- c. param x1,param x2,call p , 2 ✔
- d. param x1,x2,call(p)

The correct answer is: param x1,param x2,call p , 2

Question **9**

Correct

Mark 1.00 out of 1.00

Find the FIRST (S) for the grammar:

S→ACB | CbB | Ba
A→da | BC
B→ g | ε
C→ h | ε

○ a. { a,b,d,g, ε}
◉ b. { a,b,d,g,h, ε}   ✔
○ c. { d,g,h, ε}
○ d. { g,h, ε}

The correct answer is: { a,b,d,g,h, ε}

Question **10**

Correct

Mark 1.00 out of 1.00

The phases of Compiler include

- ☑ a.   Analysis   ✔
- ☑ b.   Synthesis   ✔
- ☑ c.   Evaluation   ✘
- ☑ d.   Implementation   ✘

The correct answers are: Analysis, Synthesis

Question **11**

Correct

Mark 1.00 out of 1.00

Find the FOLLOW (B) for the grammar

S→Bb | Cd

B→aB | ε

C→cC | ε

○ a. {$,b}

○ b. {$,a,b}

◉ c. {b}   ✔

○ d. {a,b}

The correct answer is: {b}

Question **12**

Correct

Mark 1.00 out of 1.00

The Three Address Code is represented by

- ☑ a. Triples ✔
- ☑ b. Indirect Triples ✔
- ☑ c. Quadruple ✔
- ☐ d. Intermediate Triples

The correct answers are: Quadruple, Triples, Indirect Triples

Question **13**

Correct

Mark 1.00 out of 1.00

-----------------------is one of the bottom up parser which uses parsing table (dynamic programming) to obtain the parse tree form given string using grammar productions.

- ☑ a.　SLR(1) Parser　　　　　　　　　　　　　　　　　　　　　　　　✔
- ☐ b.　LL(1) Parser
- ☑ c.　LR Parser　　　　　　　　　　　　　　　　　　　　　　　　　　✔
- ☐ d.　LL Parser

The correct answers are: LR Parser, SLR(1) Parser

Question **14**

Correct

Mark 1.00 out of 1.00

Decide whether the given grammar is LL(1) :

S→iEtSS` | a

S`→eS | ε

E→b

    ○ a. Yes

    ◉ b. No   ✔

The correct answer is: No

Question **15**

Correct

Mark 1.00 out of 1.00

Find the Leading of E for the grammar: E→E + E | E * E | (E) | id

○ a.   {+, *, (, id }   ✔

○ b.   {+, *, (}

○ c.   {+, *,id }

○ d.   {+, *,), id }

The correct answer is: {+, *, (, id }

Question **16**

Incorrect

Mark 0.00 out of 1.00

Find the FIRST (S) for the grammar;

S→Bb | Cd
B→aB | ε
C→cC | ε

- a. {a,b,c,d}
- b. {a,c,} ✖
- c. {a,d}
- d. {b,d}

The correct answer is: {a,b,c,d}

Question **17**

Partially correct

Mark 0.75 out of 1.00

Benefits of Intermediate Code Analysis

☑ a.   Machine Independent   ✔

☑ b.   Modification   ✔

☐ c.   Simplicity

☑ d.   Re-targeting is facilitated   ✔

The correct answers are: Machine Independent, Re-targeting is facilitated, Simplicity, Modification

Question **18**

Correct

Mark 1.00 out of 1.00

Recursive Descent Parsing is

☑ a. Non deterministic ✔

☑ b. Generated by Left recursive grammar ✔

☑ c. Consist set of procedure and execution begins with the starting symbol procedure ✔

☑ d. Require Backtracking ✔

The correct answers are: Non deterministic, Require Backtracking, Consist set of procedure and execution begins with the starting symbol procedure, Generated by Left recursive grammar

Question **19**

Incorrect

Mark 0.00 out of 1.00

How many Temporary variables needed in quadruples for the expression: e= a+b*c-d/(b*c)

    ○ a.   4   ✖

    ○ b.   5

    ○ c.   7

    ○ d.   6

The correct answer is: 5

Question **20**

Correct

Mark 1.00 out of 1.00

Which of the LR parsers have '0' item parsing

    ○ a.   LALR

    ○ b.   LR,SLR   ✔

    ○ c.   LALR,CLR

    ○ d.   SLR,CLR

The correct answer is: LR,SLR

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