Question 8 Incorrect Mark 0.00 out of 1.00 Filag question	Which one phase is considered best to verify Lexeme and grammar accurately map on each other? Select one: a. syntax Phase X b. Semantic Phase c. Code Generation Phase d. code optimization phase
	Your answer is incorrect. The correct answer is: Semantic Phase
Question 7 Correct Mark 2.00 out of 2.00 Filag question	A language consists of Multiple a (must appear once), may or may not present of c , and all combinations of b & c , over sigma {a,b,c} Select one: a. a*cc?(b+c)* b. a*c?(b+c)* c. a*(a+b)* c? d. none of above
	Your answer is correct. The correct answer is: a*c?(b+c)*
Question 6 Incorrect Mark 0.00 out of 1.00 P Flag question	Which one computational Model help to build a Scanner? Select one: a. Turing Machine b. PDA × c. FA d. Transition Graph
	Your answer is incorrect. The correct answer is: FA

Question 5 Correct Mark 1.00 out of 1.00 Figure Flag question	Printf ("Sum of Two numbers",c); what is the token name of "c" in C language? Select one: a. literals b. keywords c. variable d. identifier ✓
	Your answer is correct. The correct answer is: identifier
Question 4 Correct Mark 1.00 out of 1.00 P Flag question	What is the purpose of the symbol table? Select one: a. Management of CFG b. Management responsible for all phases c. Management of variables d. All of above ✓
	Your answer is correct. The correct answer is: All of above

Question 3 Which one phase of compiler responsible for back end working? Correct Mark 1.00 out of Select one: 1.00 a. Code Optimization ♥ Flag question O b. Semantic Analysis o. Intermediate Code Generation Od. Syntax Analysis Your answer is correct. The correct answer is: Code Optimization Question 1 Is "abbb" a string? over language L= {start with a and end with b}? Correct Select one: Mark 1.00 out of True $\ensuremath{\mathbb{F}}$ Flag question False The correct answer is 'True'. Question 2 Match the questions with the right answers. Correct Mark 2.00 out of Which one regular expression is equal to a+? aa* • • Which one regular expression is equal to a*? (a*)* ÷ 🗸 $\operatorname{\mathbb{F}}$ Flag question Your answer is correct. The correct answer is: Which one regular expression is equal to $a^*? \rightarrow aa^*$, Which one regular expression is equal to $a^*? \rightarrow (a^*)^*$

Question 7 Incorrect Mark 0.00 out of 1.00 Flag question	which section of flex responsible for global variables declaration? Select one: a. definition section b. Rule section c. user code section d. anywhere ** Your answer is incorrect. The correct answer is: definition section
Question 8 Correct Mark 1.00 out of 1.00 Flag question	What is the relation between NFA-accepted languages and DFA accepted languages? Select one: a. > b. != c. < d. = ✓
	Your answer is correct. The correct answer is: =
Question 5 Correct Mark 2.00 out of 2.00 P Flag question	<a> 0 begins B; { printf ("accepted");} What it represents? Select one: a. 0 move from state A to B which is Accepting state also ✓ b. not determine c. 0 move from state A to B d. 0 move from state A to B which is starting state also
	Your answer is correct. The correct answer is: 0 move from state A to B which is Accepting state also
Question 6 Correct Mark 2.00 out of 2.00 F Flag question	LANCE tool is used for code optimization Phase? Select one: ■ True ✓ ○ False
	The correct answer is 'True'.

Question 3
Correct
Mark 1.00 out
of 1.00
Flag question

Operator "*" means :

elect one:

- a. one time no output and second time to onward continue words repetition
- o b. Ambiguous
- c. non stop
- O d. continue words repetition

Your answer is correct.

The correct answer is: one time no output and second time to onward continue words repetition

Question 4
Incorrect
Mark 0.00 out
of 1.00
F Flag question

Why we need to minimize the DFA ? Select more than correct options

Select one or more:

- a. to enhance property
- 🛮 b. all of above 🗶
- c. to reduce complexity
- d. to ease of code

Your answer is incorrect.

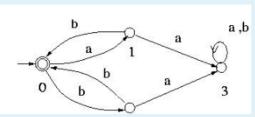
The correct answers are: to reduce complexity, to ease of code

Question **2**Correct
Mark 1.00 out of

1.00

♥ Flag question

Which will be equivalent regular expression of given DFA?



Select one:

- a. aa+ab* + (aa+b)
- b. (a+b)*
- o. None of above
- d. (ab+bb)* a (a+b)*

Your answer is correct.

The correct answer is: (ab+bb)* a (a+b)*

Question 1
Incorrect
Mark 0.00 out of 2.00

▼ Flag question

Select one or more:

a. Null

b. ab

c. abab ★

d. aaabbb

Your answer is incorrect.

The correct answer is: Null

Question 8
Correct
Mark 1.00 out
of 1.00
Flag question

convert the following expression into CFG. $a^* + a^*b(a+b)^*$ Select one: ○ a. S=> X|K X=>aX|^ K=>XbL L=>aL|bL|^ b. S-> aS|aSbGG->aG|bG c. S-> P|G P->aP|^ G->PbL L->aL|bL|^ 🗸 d. S-> X|G G->XbL L->aL|bL|^ Your answer is correct. The correct answer is: S-> P|G P->aP|^ G->PbL L->aL|bL|^

Question **7**Correct
Mark 1.00 out
of 1.00
P Flag question

Select the all options which one are Non-terminals. (select two or more if possible)

Select one or more:

- a. beta
- b. stmt
- c. expression
- d. else
- e. if

Your answer is correct.

The correct answers are: stmt, expression, beta

Question 6 Incorrect Mark 0.00 out of 1.00 P Flag question	Grammar "G" follow un-ambiguous grammar , and Right recursive also.But, still grammar "G" hold two parse tree. What would you suggest issue prevail in its Select one: a. loop forever issue b. hang the compiler program c. Non Deterministic d. Deterministic
	Your answer is incorrect. The correct answer is: Non Deterministic
Question 5 Correct Mark 1.00 out of 1.00 P Flag question	How many categories hold for CFG in case of compiler construction? If one is solved then next stages are required to correct CFG before writing a code in Bison . select no. of CFG categories. Select one: a. none of these b. 6 c. 2 each category d. 3 ✓
	Your answer is correct. The correct answer is: 3

Question 3 In case of Two Parse trees, one follow alpha*beta and other generate beta alpha*, Which one parser acceptable for compiler. Correct Mark 2.00 out Select one: of 2.00 o a, one of these Flag question b. alpha*beta c. beta alpha* O d. both alpha*beta and beta alpha* Your answer is correct. The correct answer is: alpha*beta Question 4 What is the main disadvantage of backtracking? Correct Mark 1.00 out Select one: of 1.00 a. both Time and memory consumption F Flag question b. Memory consumption o c. Always use Non terminal Od. Time consuming The correct answer is: both Time and memory consumption

Question 1 Correct Mark 1.00 out of 1.00 F Flag question	IF grammar hold Left Recursion and Unambiguous , Is it possible this grammar can hold two parse tree? Select one: ■ True ■ False
	The correct answer is 'True'.
Question 2 Correct Mark 2.00 out of 2.00 Flag question	Is this grammar Ambiguous or not? C->C^D D A->A&B B B->B%C C D->d Select one: a. No b. yes c. None one correct annswer d. may or may not be ambiguous
	Your answer is correct. The correct answer is: No

Question 8
Incorrect
Mark 0.00 out
of 2.00

F Flag question

Find the Follow() of B.

L->aABCT

A->b

B->C

C-> d

T-> e

Select one:

○ a.e

b. e,\$

c. \$ x

d. d

Your answer is incorrect.

The correct answer is: d

Question **7**Correct
Mark 1.00 out of 1.00

Flag question

Which one is the formula of Left factoring?

Select one:

a. A-> alpha A'A'-> A1| A2 | A3| null

b.

None of above 🗸

c. A-> Beta A'A'->alpha A'/ Null

O d. A-> Beta A' A'->alpha A'

Your answer is correct.

The correct answer is: None of above Question **6**Incorrect
Mark 0.00 out
of 2.00

Flag question

Kindly tick the right option which one is unambiguous CFG , by using following terminals and Non terminals.

Terminals:!=, <= , % , id

Non-Terminals: E, F, T, G

Select one:

a.

E->T!=E/T

T->T <= F/F

F->G%F / G

G-> id

b. E->E!= T/T

T->T <= F/F

F->G%F / G

G-> id

c.

E->T <= E/T

T->T != F/F

F->G%F / G

G-> id

d.

E->E!=T/T

T->F <= T/F

F->G%F / G

G-> id

Your answer is incorrect.
The correct answer is: E->E!= T /T
T->T <= F/F
F->G%F / G
G-> id

Question **5**Correct
Mark 1.00 out of 1.00

F Flag question

What is the first () of the given CFG?

S-> baaS|a

Select one:

- a. b
- b. {^,a,b}
- c. (a,b)
- d. {a,b}

Your answer is correct.

The correct answer is: {a,b}

Question 3
Incorrect
Mark 0.00 out
of 1.00

F Flag question

Which one CFG is best for Compiler construction?

Select one:

- a. Right recursive and non deterministic only enough X
- b. Left recursive only enough
- o c. Right Recursive, Ambiguous, and Deterministic
- d. Right Recursive

Your answer is incorrect.

The correct answer is: Right Recursive

Question 4
Incorrect
Mark 0.00 out
of 1.00

F Flag question

IS this grammar ambiguous?

E->E+T/T

T->F*T/F

F->id

Select one:

- True X
- False

The correct answer is 'False'.

Question 1 Which one is third step of Predictive Parser processes? Correct Mark 1.00 out Select one: of 1.00 a. First and Follow Function F Flag question O b. Parser Table c. PArser Tree ø d. Stack Implementation 🗸 Your answer is correct. The correct answer is: Stack Implementation Question 2 S->aS|bE Incorrect E->e|aT Mark 0.00 out T-> a of 1.00 Word : abe . How many recursive call will be occurred? P Flag question Select one: a. 3 × b. 1 C. 2 O d. 4 Your answer is incorrect. The correct answer is: 1

Question 20
Incorrect
Mark 0.00 out of 1.00

F Flag question

```
Which one R.E generate from the given grammar.

S->XS|^

X->P|L

P->aPT

T->aT|bT|^

L->abL|ab

Select one:

a. a*(b+a)*+ (ab)+

b. None of these **

c.
[a*(b+a)*+ (ab)(ab)*]*

d. a*(a+b)*+ [(ab)*]*
```

Your answer is incorrect.

The correct answer is: [a*(b+a)*+ (ab)(ab)*]*

Question 17
Incorrect
Mark 0.00 out of 1.00
P Flag question

Which one Left factoring grammar?

Select one:

a.

S->1S'

S'->S10S'|^

×

b.

L->0L'

L->UL L'->S|P

О с.

T=>1T'

T'=>P|L

d. S->S0S1S|01

Your answer is incorrect.

The correct answer is:

L->0L'

L'->S|P

Question 16 Incorrect Mark 0.00 out of 1.00 P Flag question

```
The grammar defines simple operation.In this grammar, the terminal symbols are : \ge = , +=, *
, \ and non -terminals are: P,L,A,B,F
Select one:
O a. P->P+=L|L
  L->L>=A|A
  A->A+B|B
  B->B*F|F
  F->id
b. P->P+=L|L
  L->L+A|A
  A->A>=B|B
  B->B*F|F
  F->id
○ c. P=>P+L|L
  L=>L*A|A
  A=>A>=B|B
  B=>B+=F|F
  F->id
d. P->P+L|L
 L->L*A|A
  A->A>=B|B
  B->B+=F|F
  F->id X
```

Your answer is incorrect.

The correct answer is: P->P+=L|L L->L>=A|A A->A+B|B B->B*F|F F->id

Question 14 Incorrect Mark 0.00 out of 1.00 P Flag question	Perform operator precedence parser table over following grammar, and tell whether parser build over this given grammar is ambiguous or unambiguous? S->S+S S^S S*S a Select one: a. Ambiguous X b. can't be guess c. May or May not be ambiguous d. unambiguous
	Your answer is incorrect. The correct answer is: unambiguous
Question 15 Correct Mark 1.00 out of 1.00 F Flag question	To make Efficient grammar formation for compiler, which one types of grammar is useful and did allow the formation of two parse tree? Select all correct options Select one or more: a. LR * b. Deterministic * c. Right Recursive * d. LL(1) *
	Your answer is correct. The correct answers are: Right Recursive, Deterministic
Question 12 Correct Mark 1.00 out of 1.00 P Flag question	LL(1) parser is a type of backtracking parser. Select one: ○ True ◎ False ✔
	The correct answer is 'False'.
Question 13 Correct Mark 1.00 out of 1.00 F Flag question	Which one is not terminal? select all correct options Select one or more: □ a. statement ✓ □ b. condition ✓ □ c. if × □ d. else ×
	Your answer is correct. The correct answers are: condition, statement

```
Question 11
Correct
Mark 1.00 out of 1.00

F Flag question
```

```
#include <iostream>
using namespace std;
// declaring a function
void greet() {
   cout << "Hello there!";
int main() {
   // calling the function
   greet();
   return 0;
}
How did you analyse this code in semantic phase of compiler?
Select one:

    a. Lexical code

    b. L-attribute

c. Synthesis Attribute 
Od. both S-attribute and L-attribute
```

Your answer is correct.

The correct answer is: Synthesis Attribute

Question 10 Which one grammar is ambiguous? Incorrect Mark 0.00 out Select one or more: of 1.00 a. F Flag question P=>P+L|L L=>L*A|A A => A>= B|BB=>B+=F|FF->id b. None of these grammar X □ c. A->A&B | B B->B%C|C C->C^D|D D->d d. S->S0S1S|01 Your answer is incorrect. The correct answers are: A->A&B | B B->B%C|C C->C^D|D D->d, P=>P+LIL L=>L*A|A A = > A > = B|BB = > B + = F|F, S->S0S1S|01 Question 9 IF grammar hold Left Recursion and Unambiguous, Is it possible this grammar can hold two parse tree?

Question 9
Incorrect
Mark 0.00 out
of 1.00

Flag question

Select one:

O True

● False X

The correct answer is 'True'.

Question **8**Partially correct
Mark 0.50 out
of 1.00
F Flag question

```
E → id
               { E.type:=lookup(id.entry) }
E → literal { E.type:=char }
E → int
              { E.type:=int }
E → real
               { E.type:=real }
E \rightarrow E1 \; mod \; E2 \qquad \{ \; if \; (E1.type=int \; and \; E2.type=int) \; then \; E.type:=int \; else \; E.type:=type-error \; \}
E → E1 [E2]
                   { if (E2.type=int and E1.type=array(s,t)) then E.type:=t else E.type:=type-error }
E → E1 ↑
                   { if (E1.type=pointer(t)) then E.type:=t else E.type:=type-error }
int A(1,7);
            int 💠 🗸
E=2 √2
           type-error 🕈 🗶
Your answer is partially correct.
You have correctly selected 1.
The correct answer is: int A(1,7); \rightarrow int, E=2 \sqrt{2} \rightarrow real
```

Question **7**Correct
Mark 1.00 out
of 1.00

F Flag question

In case of Two Parse trees, one follow alpha*beta and other generate beta alpha*, Which one parser acceptable for compiler.

Select one:

- a. None of these
- b. beta alpha*
- c. alpha*beta

 ✓
- O d. both alpha*beta and beta alpha*

Your answer is correct.

The correct answer is: alpha*beta

Question 6 Which one recursive decent parser without backtracking? select all correct options Correct Mark 1.00 out Select one or more: of 1.00 a. None of these Flag question b. Non recursive ☑ c. LL(1) Parser

✓ d. Predictive Parse Your answer is correct. The correct answers are: Predictive Parse, LL(1) Parser Question 5 What is the first() of "P" of the given grammar? Correct S-> PCD Mark 1.00 out of 1.00 P->ACD Flag question A->d|^ C-> f D->a Select one: a. d,f 0 b. d O c. A d. d, ^ Your answer is correct. The correct answer is: d,^

Question **3** Incorrect Mark 0.00 out of 1.00

♥ Flag question

stack hold the following:

Stack: &, id, +, id & arrow point out last & within the stack.

Word: id + id * id & arrow point out * sign

Which one operation will be performed in the stack? select the right option

Select one:

- a. before * all will be POP
- Ob. POP
- c. PUSH X
- Od. After * all will be PUSH

Your answer is incorrect.

The correct answer is: before * all will be POP

Question 2

Correct

Mark 1.00 out of 1.00

Flag question

What is a CFG of a^n b^n?

Select one:

- a. S->abS
- b. S=>aS|bS
- c. Not exist in options
- Od. S->aS|bS

Your answer is correct.

The correct answer is: Not exist in options

Question 1

Correct

Mark 1.00 out of 1.00

♥ Flag question

What is Follow () of the " $\mbox{T}^{\mbox{"}}$ " in given CFG?

E->E'T

E'->T+E'|^

T->FT'

 $T' -> F*T'|^{\wedge}$

F->id|(E)

Select one:

- a. +,*,&
- b. +,*
- c. None of these options
- od. +,&,)

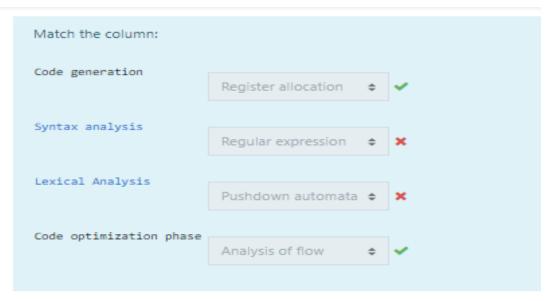
Your answer is correct.

The correct answer is: None of these options

Question 18 Why we need first() and Follow() functions? Correct Select one: Mark 1.00 out of 1.00 o a. To construct Top down approach Flag question O b. to construct RR ◎ c. To construct a parser table O d. Not valid question Your answer is correct. The correct answer is: To construct a parser table Question 19 rexp->rterm rexp' Correct rexp'->^|+rterm rterm->rterm rfactor | rfactor Mark 1.00 out of 1.00 Is this grammar in Left factoring form? Flag question Select one: True False

The correct answer is 'False'.

Question 4
Partially correct
Mark 0.50 out
of 1.00
Flag question



Your answer is partially correct.

You have correctly selected 2.

The correct answer is:
Code generation

→ Register allocation,
Syntax analysis

→ Pushdown automata,
Lexical Analysis

→ Regular expression,
Code optimization phase

→ Analysis of flow