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Question No : 41 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Suppose you are making a transition table from a DFA. You find a situation where a state has multiple outgoing paths; one is for epsilon and other for any other alphabet. Which transition will you perform first?

Answer (Please click here to Add Answer)

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DFA me nul ki transition hoti hi nhi mamu
chohdri kukar khan shabaloo

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Question No : 42 of 52 **Marks: 2 (Budgeted Time 4 Min)**

How a flow graph can be a Reducible Flow Graph?

Answer (Please click here to Add Answer)

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Reducible Flow Graphs: If every retreating edge is a back edge, regardless of which depth-rst spanning tree is chosen, then the flow graph is said to be reducible.

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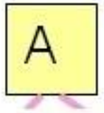
Question No : 43 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Traverse the following tree in Inorder.



Answer (Please click here to Add Answer)

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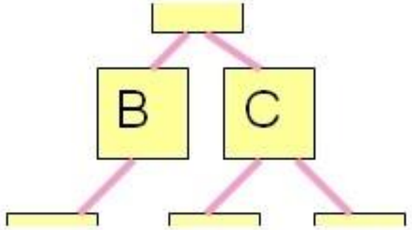
Question No : 43 of 52 **Marks: 2 (Budgeted Time 4 Min)**



Answer (Please click here to Add Answer)

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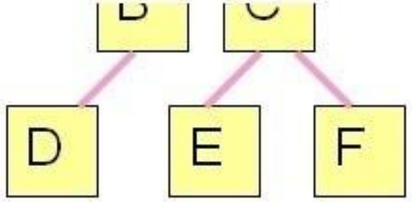
Question No : 43 of 52 **Marks: 2 (Budgeted Time 4 Min)**



Answer (Please click here to Add Answer)

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ABCDEF

BY gull 200%

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Question No : 44 of 52 **Marks: 2 (Budgeted Time 4 Min)**

Identify, whether the following grammar is LR(1) or LL(1)?

S→Aca | Bcb
A→c
B→c

Answer (Please click here to Add Answer)

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Question No : 45 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Is the given grammar ambiguous? Explain reason in both cases if your answer is yes or no.

G → E
E → T + E | T
T → F * T | F
F → a

Answer (Please click here to Add Answer)

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yes
bcz of E n T has 2 values

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Question No : 46 of 52 **Marks: 3 (Budgeted Time 6 Min)**

How can compiler transformation improve a program?

Answer (Please click here to Add Answer)

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These are called the *LALR(1) states*. LALR(1) stands for **L**ook**A**head **LR**(1). This leads to tables that have 10 times fewer states than LR(1).

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Question No : 47 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Which information we can get from the third section of YACC file?

Answer (Please click here to Add Answer)

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Definitions get from 1st section
%%
Rules get from 2nd section
%%
C/C++ functions get from third section

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Question No : 48 of 52 **Marks: 3 (Budgeted Time 6 Min)**

Transform the following basic block into its equivalent block after performing common sub-expression elimination.

A := 6 * (B+C);
D := A * (B+C);

Answer (Please click here to Add Answer)

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intahai chawal he paper dene wala

temp=(B+C)
A=temp*6
D=temp*A

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Question No : 49 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Considering the following grammar, calculate the first set of non-terminals X, Y, Z and follow set of non-terminals X and Y.

```
X -> YZa | f
Y -> bY | d
Z -> cZ | e
```

Answer (Please click here to Add Answer)

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first set

X={a,f,b,d,c,e}
Y={b,d}
Z={c,e}

fellow set

X={$}

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Question No : 50 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Develop an algorithm to generate LALR(1) DFA.

Answer (Please click here to Add Answer)

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Repeat until all states have distinct code
choose two distinct states with same core
merge states by creating a new one with the union of all the items
point edges from predecessors to new state
new state points to all the previous successors

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Question No : 51 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Add semantic rules to the following grammar to compute the attribute **rm** whose value is the rightmost terminal in the string we parsed.
Note: subscripts in the grammar below are only to distinguish multiple instances of the same non-terminal.

S → A {S.rm =

A → A_1 x y

Answer (Please click here to Add Answer)

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S.nptr = A.nptr
S.nptr = mknode ('rm', y.val)
A.nptr = mknode('□', A1.nptr, x.val, y.val)
A.nptr = mknode('□', B.nptr, A1.val, y.val)
B.nptr = mknode('□', B1.nptr, z.val)
B.nptr = mkleaf('*', x.val)

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Question No : 51 of 52 **Marks: 5 (Budgeted Time 10 Min)**

$A \rightarrow A_1\ x\ y$

$\quad\quad | B\ A_1\ y$

$B \rightarrow B_1\ z$

$\quad\quad | x$

Answer (Please click here to Add Answer)

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Question No : 52 of 52 **Marks: 5 (Budgeted Time 10 Min)**

Translate each of the following instruction set into simple words.

```
if x then goto L
if !x then goto L
param x
call p,n,x
```

Answer (Please click here to Add Answer)

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if x true goto L
if x not true then go to L
reciveing the paramtr x
call the function p,n,x ..

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Question No : 52 of 52 **Marks: 5 (Budgeted Time 10 Min)**

```
if x then goto L
if !x then goto L
    param x
    call p,n,x
    return x
```

Answer (Please click here to Add Answer)

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x got the value

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