

Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

A regular language _____.

Answer (Please select your correct option)

Must be finite



Must be infinite

Can be finite or infinite

Complex Language

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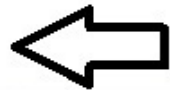
Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

If a language can be expressed by a regular expression, then its complement is _____.

Answer (Please select your correct option)

Regular



Non Regular

Finite

Infinite

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

For every Context Free Grammar (CFG), we can make the corresponding _____.

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Answer (Please select your correct option)

FA

TG

PDA

Regular Grammar



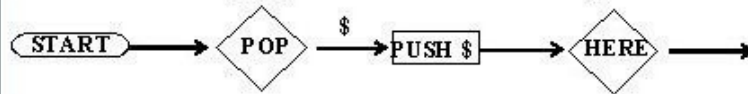
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Look at the following diagram and select the correct option:



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Answer (Please select your correct option)

The PDA must not begin with the sequence

The PDA may begin with the sequence

The PDA must begin with the sequence

The PDA may not begin with the sequence

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following Context Free Grammar (CFG) and select the correct choice

$S \rightarrow AB$

$A \rightarrow BSB \mid a \mid b$

$B \rightarrow CC$

$C \rightarrow SS \mid b \mid bb$

Answer (Please select your correct option)

abb is a word in the corresponding CFL.



abb is not the word of corresponding CFL.

Any word can be accepted from the corresponding CFL.

b is a word in the corresponding CFL.

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following statement(s) is/are true or false?

- 1) The turing machine is similar to a finite automaton but with an unlimited and unrestricted memory.
- 2) A Turing machine is a much more accurate model of a general purpose computer.

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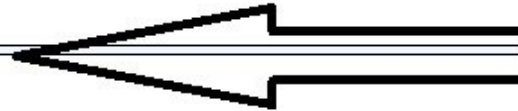
Answer (Please select your correct option)

Statement 1 is true

Statement 2 is true

Both statements (1 & 2) are false

Statement 2 is false



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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Language of strings having even number of a's is considered to be:

Answer (Please select your correct option)

Regular



Irrelgular

Irregular and infinite

Irregular and finite

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If we have two transition graphs then their union will be expressed by:

Answer (Please select your correct option)

- taking a common start state and joining them by two null transitions
- just connecting both start states by null transitions
- connecting final state of first TG to the initial state of second TG
- connecting the final state of first TG to the final state of second TG



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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

A language of strings of prime length is considered to be:

Answer (Please select your correct option)

regular but infinite

regular

irregular

regular but finite



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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ and _____ are removed in order to make a CFG in Chomsky Normal Form (CNF).

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Answer (Please select your correct option)

Null, nullable productions

Nullable, unit productions

Null, unit productions

Strings of length 0, null



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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

The languages are supposed to be _____ in case of testing pumping lemma.

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Answer (Please select your correct option)

context free

irregular

both regular and irregular

regular

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following refers to an effectively solvable problem having answer in "Yes" or "No"?

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Answer (Please select your correct option)

Decision procedure



Logical problem

Analytical problem

Binary procedure

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following Context Free Grammar (CFG):

$S \rightarrow SX|XY$

$X \rightarrow ZZ$

$Y \rightarrow 0$

$Z \rightarrow 1$

Answer (Please select your correct option)

110

11011

1101111

11101



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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Consider the following Context Free Grammar (CFG):

$S \rightarrow SX|XY$

$X \rightarrow ZZ$

$Y \rightarrow 1$

$Z \rightarrow 0$

Answer (Please select your correct option)

001

00010

0010000

00100



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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is a regular Context Free Grammar:

Answer (Please select your correct option)

$S \rightarrow abS \mid baS \mid \wedge$



$S \rightarrow aSb \mid baS \mid \wedge$

$S \rightarrow abS \mid bSa \mid \wedge$

$S \rightarrow aSb \mid Sa \mid \wedge$

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Question No : 38 of 52

Marks: 1 (Budgeted Time 1 Min)

Concatenation of r1 and r2 will be shown as:

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Answer (Please select your correct option)

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r1+r2

r2+r1

r2r1

r1r2



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A nonterminal is said to be self-embedded, if in a given derivation of a word, it ever occurs as a tree _____ of itself.

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Answer (Please select your correct option)

ascendant

descendant

top

bottom



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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is always Deterministic.

Answer (Please select your correct option)

Finite Automaton



Transition Graph

Generalize Transition Graph

Non-deterministic finite automaton

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Write alternative form of this production.

$S \rightarrow aS, S \rightarrow bS, S \rightarrow \Lambda$

Answer (Please [click here](#) to Add Answer)



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What are the uses of Push Down Automata (PDA) in computing?

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Answer (Please [click here](#) to Add Answer)

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The PDA is used in theories about what can be computed by machines. PDA described with a formal grammar, it can be used in parser design. The deterministic pushdown automaton can handle all deterministic context-free languages while the nondeterministic version can handle all context-free languages.

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What is meant by Row language?

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Answer (Please [click here](#) to Add Answer)

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row language whose alphabet is $\Sigma = \{Row_1, Row_2, \dots, Row_7\}$ i.e. the alphabet consists of the letters which are the names of the rows in the summary table.

that the Row language is the language whose alphabet $\Sigma = \{Row_1, Row_2, \dots, Row_7\}$,

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Write down regular expression for a language L of strings defined over $\Sigma = \{a, b\}$ that neither ends in "a" nor with "b".

Answer (Please [click here](#) to Add Answer)

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What are the steps of Recursive Definition of Languages?

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Answer (Plea:

Recursive definition of languages

The following three steps are used in recursive definition

Some basic words are specified in the language.

Rules for constructing more words are defined in the language.

No strings except those constructed in above, are allowed to be in the language.

Examples

Defining language of INTEGER

Step 1: 1 is in **INTEGER**.

Step 2: If x is in **INTEGER** then $x+1$ and $x-1$ are also in **INTEGER**.

Step 3: No strings except those constructed in above, are allowed to be in **INTEGER**.

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What does the following arbitrary summary table show?

FROM Where	TO Where	READ What	POP What	PUSH What	ROW Number
READ ₀	READ ₇	b	b	abb	11

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Answer ([Please click here to Add Answer](#))

Consider the following row from an arbitrary summary table

FROM Where	TO Where	READ What	POP What	PUSH What	ROW Number
READ ₉	READ ₃	b	b	abb	11

which shows that Row₁₁ is not Net style sentence because the trip from READ₉ to READ₃ does not pop one letter from the STACK, while it adds two letters to the STACK. However Row₁₁ can be concatenated with some other Net style sentences *e.g.* Row₁₁Net(READ₃, READ₇, a)Net(READ₇, READ₁, b)Net(READ₁, READ₈, b)

Which gives the nonterminal

Net(READ₉, READ₈, b), now the whole process can be written as

Net(READ₉, READ₈, b) → Row₁₁Net(READ₃, READ₇, a) Net(READ₇, READ₁, b)Net(READ₁, READ₈, b)

Which will be a production in the CFG of the corresponding row language

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Write down Context Free Grammar (CFG) for the language of strings expressed by the following regular expression:

$(a + b)^*(a + b)^+$

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Answer (Please [click here](#) to Add Answer)



$S \rightarrow a|b|Xa|Xb, \quad X \rightarrow aX|bX|^{\wedge}$

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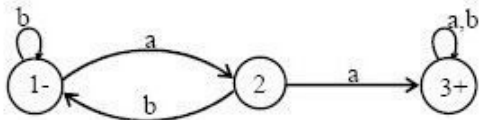
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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

Let us consider the following Finite Automaton (FA):



Answer (Please [click here](#) to Add Answer)

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Write the CFG for EVEN-EVEN language?

Answer ([Please click here to Add Ansv](#)



Example

$\Sigma = \{a,b\}$

productions:

$S \rightarrow SS$

$S \rightarrow XS$

$S \rightarrow \Lambda$

$S \rightarrow YSY$

$X \rightarrow aa$

$X \rightarrow bb$

$Y \rightarrow ab$

$Y \rightarrow ba$

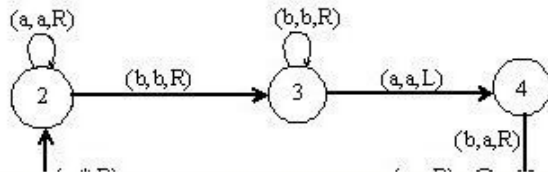
This grammar generates EVEN-EVEN language.

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Consider the following TM



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Answer (Please [click here](#) to Add Answer)



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Using suitable examples, differentiate between Kleene star closure and plus operation?

Answer (Please

Kleene Star Closure

Given Σ , then the Kleene Star Closure of the alphabet Σ , denoted by Σ^* , is the collection of all strings defined over Σ , including Λ .

It is to be noted that Kleene Star Closure can be defined over any set of strings.

Examples

If $\Sigma = \{x\}$

Then $\Sigma^* = \{\Lambda, x, xx, xxx, xxxx, \dots\}$

If $\Sigma = \{0,1\}$

Then $\Sigma^* = \{\Lambda, 0, 1, 00, 01, 10, 11, \dots\}$

If $\Sigma = \{aaB, c\}$

Then $\Sigma^* = \{\Lambda, aaB, c, aaBaaB, aaBc, caaB, cc, \dots\}$

Note

Languages generated by Kleene Star Closure of set of strings, are infinite languages. (By infinite language, it is supposed that the language contains infinite many words, each of finite length).

PLUS Operation ($^+$)

Plus Operation is same as Kleene Star Closure except that it does not generate Λ (null string), automatically.

Example

If $\Sigma = \{0,1\}$

Then $\Sigma^+ = \{0, 1, 00, 01, 10, 11, \dots\}$

If $\Sigma = \{aab, c\}$

Then $\Sigma^+ = \{aab, c, aabaab, aabc, caab, cc, \dots\}$

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a. Construct Context Free Grammar (CFG) for the language defined by the regular expression:

$$(ab + ba)^*(a + b)^*$$

b. Remove null productions from the CFG constructed in part i.

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Answer (Please [click here](#) to Add Answer)



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Best of luck!

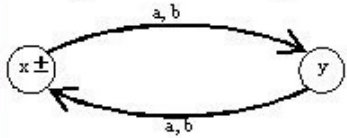


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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Below given FA can be represented by



Answer (Please select your correct option)

$((a + b)(a + b))^*$



$(a + b)(a + b)^*$

$(a + b)(a + b)$

$(a + b)^*(a + b)^*$

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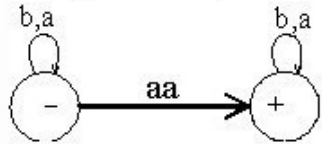
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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Below given TG has _____ RE.



Answer (Please select your correct option)

(b+a) (aa) (b+a)*

(a+b) (aa) (a+b)*

(a+b)* (aa) (a+b)*

(a+b)* (aa) (a+b)



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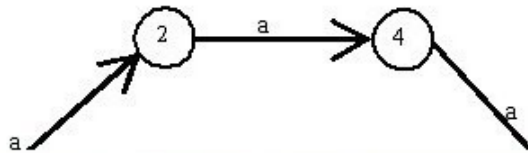
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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Below given TG's are _____.



Answer (Please select your correct option)

non-symmetric

Equivalent

Non-equivalent

TG's are not valid

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

"One GTG can generate _____ language".

Answer (Please select your correct option)

more than one

only one

only two

only three



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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Even-palindrome is a _____ language

Answer (Please select your correct option)

non-regular



regular

regular but infinite

regular but finite

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

If L_1 and L_2 are two regular languages, then _____ is/are also regular.

Answer (Please select your correct option)

Both $L_1 \cup L_2, L_1 \cap L_2$



$L_1 \cap L_2$

$L_1 \cup L_2$

$L_1 \cap L_2$

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

If the FA has N states, then test the words of length less than N . If any one word is accepted by this FA, then it will accept _____ word.

Answer (Please select your correct option)

All



No



One



Two



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Question No : 9 of 52

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Which of the following pairs of regular expressions are equivalent?

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Answer (Please select your correct option)

1(001)* and (10)*10

x(xx)* and (x)*x

x⁺ and x*



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x⁺ and x*x⁺

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An alphabet of Σ is valid if

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Answer (Please select your correct option)

No letter of Σ appears in middle of any other letter

No letter of Σ appears at end of any other letter

No letter of Σ appears at start of any other letter

No letter of Σ appears at end or middle of any other letter



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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following pairs of regular expressions are not equivalent?

Answer (Please select your correct option)

(ab)* and a*b*



x(xx)* and (xx)*x

x* and x*x*

x(x)* and (x)*x

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

There exist _____ derivations of a certain word in ambiguous grammar.

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Answer (Please select your correct option)

more than one

Exactly one

exactly two

no

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

Regular languages are closed under _____

Answer (Please select your correct option)

Union and Concatenation



Union and Division

Union and Exponent

Union and Factorial

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Which one of the following statements is INCORRECT:

Answer (Please select your correct option)

- A language consisting of all strings over $\Sigma = \{a,b\}$ having equal number of a's and b's is a regular language
- Every language that can be expressed by FA can also be expressed by RE
- None of these
- $(a+b)^*aa(a+b)^*$ generates Regular language.

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

TM is more powerful than FSM because

not sure

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Answer (Please select your correct option)

The tape movement is confined to one direction

It has no finite state control

It has the capability to remember arbitrary long sequences of input symbols

The tape movement is confined to more than one directions



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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

CYK algorithm was invented by John Cocke and later was published by ____

Answer (Please select your correct option)

Talik Khon and Daniel H

Tandao Kasami and Daniel H

Tandao Dagger and Daniel H

Talik Khon



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The process of finding the derivation of word generated by particular grammar is called _____

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Answer (Please select your correct option)

Processing

Parsing

Programming

Planing



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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

There are different parsing techniques, including _____

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Answer (Please select your correct option)

Top down parsing

Bottom up parsing

Parsing technique for particular grammar of arithmetic expression

All of these

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

$\Sigma = \{a, Aa, Abb\}$, then string $aAaAbbAa$ has length equal to _____.

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Answer (Please select your correct option)

Three

Four

One

Two



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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

The language generated by CFG is called _____;

Answer (Please select your correct option)

Infinite

Context Free Language (CFL)

Regular

Finite

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

In _____ there must be transition for all letters.

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Answer (Please select your correct option)

NFA

FA

TG

GTG



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Question No : 22 of 52

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Answer (Please select your correct option)

$r1^*r2r3^*$

$(r1r2r3)^*$

$r1*r2*r3^*$

None of the given

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