



CS402 Theroy Of Automata Update MCQS For MidTerm Solve By Vu Topper RM



80 To 100% Marks



وَتَعَزَّزُ مَن تَشَاءُ وَتُذَلُّ مَن تَشَاءُ



PROFESSIONAL ONLINE ACADEMY

WE Offers

LMS Handling

Important Notes

Online Classes

Assignments

Quiz & GDB's

Projects

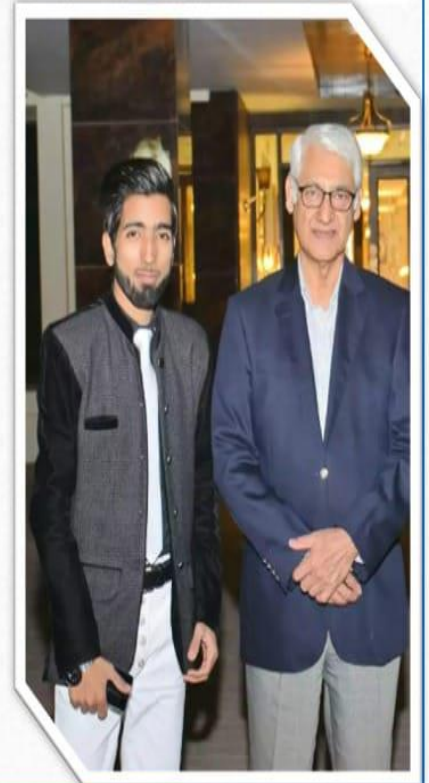
**NOTHING
IS
IMPOSSIBLE**

**Join Us
Now**

For More Info
Contact us at:

Rizwan Manzoor

0322-4021365



بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:1

(Marks:1)

Vu-Topper RM

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

- A. One
- B. Two
- C. Three

D. Four

Page 4

Question No:2

(Marks:1)

Vu-Topper RM

Languages generated by kleene star are always ___.

- A. Finite
- B. Infinite**
- C. Sometimes finite & sometimes infinite
- D. None of the these

Page 7

Question No:3

(Marks:1)

Vu-Topper RM

Let $S = \{aa, bb\}$, then S^* will have the _____ string.

- A. Λ**
- B. abba
- C. aabbbaa
- D. bbaab

Page 7

Question No:4

(Marks:1)

Vu-Topper RM

If $r1 = (aa + bb)$ and $r2 = (a + b)$ then the language $(aa + bb)^*$ will be generated by

- A. $(r1)(r2)$
- B. $(r1 + r2)$
- C. $(r2)^*$

D. $(r1)^*$

Page 10

Question No:5

(Marks:1)

Vu-Topper RM

If a language can be expressed through FA, then it can also be expressed through TG.

A. True

Page 25

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

B. False

Question No:6

(Marks:1)

Vu-Topper RM

If an alphabet has n number of letter, then number of strings of length m will be

- A. $n+m$
- B. $(n)(m)$
- C. m^n

D. n^m Page 6

Question No:7

(Marks:1)

Vu-Topper RM

In GTG, if a state has more than one incoming transitions from a state. Then all those incoming transitions can be reduced to one transition using sign

- A. -
- B. +
- C. *
- D. ()

Page 27

Question No:8

(Marks:1)

Vu-Topper RM

Above given FA accepts _____ strings defined over $\Sigma = \{a, b\}$

- A. All
- B. Some
- C. All but not null
- D. None of these

Page 15

Question No:9

(Marks:1)

Vu-Topper RM

One FA has 3 states and 2 letters in the alphabet. Then FA will have _____ number of transitions in the diagram

- A. 4
- B. 5
- C. 7

D. 6 Page 14

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:10

(Marks:1)

Vu-Topper RM

Every FA should be

- A. Deterministic** **Page 25**
- B. Non- Deterministic
- C. Deterministic & Non- Deterministic
- D. None of these

Question No:11

(Marks:1)

Vu-Topper RM

Auto Meta mean

- A. Manual work
- B. Automatic work** **Page 3**
- C. Both
- D. None of these

Question No:12

(Marks:1)

Vu-Topper RM

NFA to FA will

- A. Equal** **Page 43**
- B. Not equal
- C. Not valid
- D. None of given

Question No:13

(Marks:1)

Vu-Topper RM

The length of output string in case of__is one more than the length of corresponding input string.

- A. Finite Automaton** **Page 55**
- B. TG
- C. GTG
- D. NFA

Question No:14

(Marks:1)

Vu-Topper RM

The__machine helps in building a machine that can perform the addition of binary numbers.

- A. Incrementing** **Page 60**

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. Complementing
- C. Decrementing
- D. None of the given

Question No:15 (Marks:1) **Vu-Topper RM**

In proving Kleene Theorem II, if a state has two incoming transition edges labelled by RE from the same state, then replace all the edges with a single transition edge labelled by ----- of corresponding RE.

A. Sum **Page 27**

- B. Edge
- C. FA
- D. RE

Question No:16 (Marks:1) **Vu-Topper RM**

Kleene Theorem III states that if the language can be expressed by RE then there exist ----- accepting the language.

A. FA **Page 32**

- B. DFA
- C. NFA
- D. None

Question No:17 (Marks:1) **Vu-Topper RM**

If L_1 and L_2' are regular languages, $L_1 \cap (L_2' \cup L_1)'$ will be

A. Regular **Page 10**

- B. Ir-regular
- C. Can't be decided
- D. Another Language which is not listed here

Question No:18 (Marks:1) **Vu-Topper RM**

A regular language can be:

- A. irregular
- B. infinite
- C. non-deterministic

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. None of the given options

Question No:19

(Marks:1)

Vu-Topper RM

There _____ a language for which only FA can be built but not the RE.

A. is cannot be

B. may be

C. may not be

Question No:20

(Marks:1)

Vu-Topper RM

For every three regular expressions R, S, and T, the languages denoted by $R(S \cup T)$ and $(RS) \cup (RT)$ are the _____ .

A. Same

B. Different

C. None of these

Question No:21

(Marks:1)

Vu-Topper RM

In _____ there must be transition for all the letters of a string.

A. NFA

B. GTG

C. TG

D. FA

Question No:22

(Marks:1)

Vu-Topper RM

We cannot construct an NFA for the language of _____ defined over alphabet set $\{a,b\}$.

A. Even

B. odd

C. Palindromes

D. Integers

Question No:23

(Marks:1)

Vu-Topper RM

Decomposing a string into its valid units is referred as:

A. Decomposing

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. Splitting
- C. Tokenizing**
- D. Dividing

Question No:24 (Marks:1) **Vu-Topper RM**
Choose the correct word produced by RE $(a + b)^*$ $(aa+bb)$.

- A. Abab
- B. Babab
- C. aaaa**
- D. Ab

Question No:25 (Marks:1) **Vu-Topper RM**
Considering FA1 and FA2 having 2 states each. Now FA1+FA2 can have maximum _____ number of states.

- A. 2
- B. 3
- C. more than 3**
- D. None of these

Question No:26 (Marks:1) **Vu-Topper RM**
If R is a regular language and L is some language, and $L \cup R$ is a _____, then L must be a _____.

- A. Regular language**
- B. Finite Auto

Question No:27 (Marks:1) **Vu-Topper RM**
The minimum length of the strings(except null string) of a language that starts and ends in different letters will be:

- A. 1**
- B. 2
- C. 3
- D. 4

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:28

(Marks:1)

Vu-Topper RM

Consider we have languages L7 and L6. Which of the following represents their concatenation?

A. L7+L6

B. L7/L6

C. L6L7

D. L7L6

Question No:29

(Marks:1)

Vu-Topper RM

Let FA1 has x number of states and FA2 has y number of states. Now FA1+FA2 can have maximum _____ number of states.

A. x+y

B. x-y

C. x/y

D. None

Question No:30

(Marks:1)

Vu-Topper RM

The language {a ab aba bab} is _____.

A. Irregular

B. Regular

C. Recursive

D. None of the given options

Question No:31

(Marks:1)

Vu-Topper RM

If we have a finite language and the number of states in the FA is n then the maximum number of letters in the each word of the language that will be accepted by the given FA will be:

A. N

B. n-1

C. n+1

D. 1

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:32

(Marks:1)

Vu-Topper RM

Moore machine can have ----- final states.

A. 2

B. 4

C. 6

D. 8

Question No:33

(Marks:1)

Vu-Topper RM

There _____ be dead states in NFA.

A. may not

B. must

C. should not

D. will

Question No:34

(Marks:1)

Vu-Topper RM

Let L be the language of all strings, defined over $\Sigma = \{0,1\}$, ending in 10. Which of the following strings are distinguishable with respect to L with z being 0?

A. 010, 101

B. 111, 101

C. 001, 101

D. 111, 111

Question No:35

(Marks:1)

Vu-Topper RM

There _____ be a unique path for each valid string (called a word) in NFA.

A. May not

B. Must

C. Should not

D. Will

Question No:36

(Marks:1)

Vu-Topper RM

If we have only one state, having no transition for input letters, then it is an example of:

بري صحبت سے تھائی بہتر ہے اور تھائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- A. RE
- B. FA
- C. TG
- D. NFA**

Question No:37

(Marks:1)

Vu-Topper RM

Strings x, y, z belongs to Σ^* such that $xz \in L$ but $yz \notin L$ where $L \subseteq \Sigma^*$ are:

- A. Undetermined
- B. Distinguishable**
- C. Indistinguishable
- D. Both distinguishable and indistinguishable

Question No:38

(Marks:1)

Vu-Topper RM

A _____ with "n" states must accept at least one string of length greater than "n".

- A. DFA**
- B. RE
- C. Irregular language
- D. Irrelevant language

Question No:39

(Marks:1)

Vu-Topper RM

In Moore machine, output is produced over the change of:

- A. Transitions
- B. Transitions and states
- C. None of the mentioned
- D. States**

Question No:40

(Marks:1)

Vu-Topper RM

Keeping in view the discussion by Martin, how many states are required to recognize the language of all strings of length 3 or more defined over $\Sigma = \{a, b\}$, with 'a' being the third letter from right?

- A. 10

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. 12
- C. 14
- D. 16**

Question No:41 (Marks:1) **Vu-Topper RM**
Every _____ can be considered to be _____ as well, but the converse may not be true.

- A. TG, FA Page 19**
- B. GTG
- C. PDA
- D. FA, TG

Question No:42 (Marks:1) **Vu-Topper RM**
In the context of make NFA for the concatenation of FA1 and FA2 (Both FAs accepting null string), which of the following option is correct?

- A. Final states in both FAs**
- B. Initial states in both FAs
- C. FA2 having initial state only
- D. FA2 having final state only

Question No:43 (Marks:1) **Vu-Topper RM**
In order to make NFA for the union of FA1 and FA2, the new initial state should be linked to:

- A. Initial states of both FAs**
- B. Initial and final states of FA1 and FA2 respectively
- C. Initial state of FA1 only
- D. Final and initial states of FA1 and FA2 respectively

Question No:44 (Marks:1) **Vu-Topper RM**
Keeping in view the discussion by Martin, how many states are required to recognize the language of all strings of length 2 or more defined over $\Sigma = \{a,b\}$, with 'b' being the second letter from right?

- A. 9

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. 6
- C. 7**
- D. 8

Question No:45 (Marks:1) **Vu-Topper RM**
If we have an NFA having 3 states, and we convert that NFA to an FA.
The resultant FA will contains _____ states.

- A. 1
- B. 2**
- C. 3
- D. 4

Question No:46 (Marks:1) **Vu-Topper RM**
Let FA3 be an FA corresponding to FA1FA2, then initial state of FA3
must correspond to the initial state of

- A. FA1 only
- B. FA2 only
- C. FA1 and FA2
- D. FA1 or FA2**

Question No:47 (Marks:1) **Vu-Topper RM**
In which of the following machine, the length of output string is the same
to that of input string?

- A. Mealy machine**
- B. Moore machine
- C. Finite automaton with output
- D. Non-deterministic finite automaton

Question No:48 (Marks:1) **Vu-Topper RM**
Moore Machine is an application of:

- A. Finite automata with output**
- B. Finite automata with input
- C. None

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:49

(Marks:1)

Vu-Topper RM

In NFA having multiple transitions at certain state, FA can be built by introducing:

- A. Empty state**
- B. Combination of states
- C. Initial state
- D. Final state

Question No:50

(Marks:1)

Vu-Topper RM

In Mealy machine the output depends on _____

- A. Present state and Present input**
- B. Only present state
- C. Nothing
- D. Type of input

Question No:51

(Marks:1)

Vu-Topper RM

If L is a regular language, then $(L^*)^* \cup L$ will be:

- A. L**
- B. C
- C. P
- D. F

Question No:52

(Marks:1)

Vu-Topper RM

A string will be accepted by an NFA if there exists _____ one successful path.

- A. Atleast**
- B. Atmost
- C. Maximum
- D. None of the given options

Question No:53

(Marks:1)

Vu-Topper RM

If A and B are regular languages, $!(A^* \cup B^*)$ is:

- A. Non regular

بري صحبت سے تھائی بہتر ہے اور تھائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. May be regular
- C. None of the mentioned
- D. Regular**

Question No:54

(Marks:1)

Vu-Topper RM

There is no question of accepting any language in:

- A. Moore machine**
- B. FA
- C. TG
- D. GTG

Question No:55

(Marks:1)

Vu-Topper RM

In _____ there must be transitions for all the alphabets over which a language is defined.

- A. FA**
- B. TG
- C. NFA
- D. GTG

Question No:56

(Marks:1)

Vu-Topper RM

Let FA3 be an FA corresponding to FA1FA2, then final state of FA3 must correspond to the final state of

- A. FA2 only**
- B. FA1 only
- C. FA1 or FA2
- D. FA1 and FA2

Question No:57

(Marks:1)

Vu-Topper RM

How many new states are introduced while developing NFA for the closure of an FA?

- A. 2**
- B. 4
- C. 6

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. 8

Question No:58

(Marks:1)

Vu-Topper RM

Subtraction of binary numbers is possible through:

A. Both complementing and incrementing machine

B. Complementing machine

C. Incrementing machine

D. Converting machine

Question No:59

(Marks:1)

Vu-Topper RM

For a given Moore Machine, the input string is '101010', thus the output string would be of length:

A. Length of input string + 1

B. Length of input string – 1

C. Length of input string + 2

D. Length of input string -2

Question No:60

(Marks:1)

Vu-Topper RM

Which one of the following machine is represented as a pictorial representation with states and directed edges labeled by an input letter along with an output character?

A. Mealy machine

B. Moore machine

C. Finite state machine

D. Deterministic finite state machine

Question No:61

(Marks:1)

Vu-Topper RM

If FA1 corresponds to $(a+b)^*$ then FA1 must accept _____ string/strings.

A. No

B. Odd length

C. Even length

D. Every

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:62

(Marks:1)

Vu-Topper RM

Closure of an FA is the same as _____ of an FA with itself except that the initial state of the required FA is a final state as well.

- A. Sum
- B. Union
- C. Intersection
- D. Concatenation**

Question No:63

(Marks:1)

Vu-Topper RM

Given the language $L = \{ab, aa, baa\}$, which of the following strings are in L^* ?

- 1. abaabaaabaa
- 2. aaaabaaaa
- 3. baaaaabaaaab
- 4. baaaaabaa

- A. 1, 2 and 3
- B. 2, 3 and 4
- C. 1, 2 and 4**
- D. 1, 3 and 4

Question No:64

(Marks:1)

Vu-Topper RM

FA and _____ are same except that _____ has unique symbol for each transition.

- A. FA, TG
- B. NFA, TG
- C. NFA, FA**
- D. GTG, NFA

Question No:65

(Marks:1)

Vu-Topper RM

How many states of a finite automaton will be final for accepting the only string 'abb', if $\Sigma = \{a, b\}$?

- A. 1**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. 2
- C. 3
- D. 4

Question No:66

(Marks:1)

Vu-Topper RM

Two machines are said to be equivalent if they print the _output_ string when the __input string is run on them.

- A. Same, Same**
- B. Same, different
- C. Different, same
- D. Unique, different

Question No:67

(Marks:1)

Vu-Topper RM

Every NFA can be considered to be a - as well, but the converse may not be true.

- A. TG**
- B. FA
- C. GTG
- D. PDA

Question No:68

(Marks:1)

Vu-Topper RM

In which of the following machine, the length of output string is 1 more than that of input string?

- A. Mealy machine
- B. Non-deterministic finite automaton
- C. Finite automaton with output
- D. Moore machine**

Question No:69

(Marks:1)

Vu-Topper RM

If $S = \{aa, bb\}$ then S^* will not contain _____.

- A. abbbab
- B. bbba**
- C. bbbbab

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

D. ababbb

Question No:70

(Marks:1)

Vu-Topper RM

Which of the following machine has only one initial state and no final state?

A. Moore machine

B. Finite state machine

C. Deterministic finite state machine

Question No:71

(Marks:1)

Vu-Topper RM

Which of the following diagram is very rigid in order to express any language?

A. TG

B. NFA

C. GTG

D. FA

Question No:72

(Marks:1)

Vu-Topper RM

If $S = \{a\}$, then S^+ will be

A. $\{a, aaa, aaaa, aaaaa, \dots\}$

B. $\{a, aa, aaa, aaaa, \dots\}$

C. $\{a, aaa, aaaaa, aaaaaaa, \dots\}$

D. $\{aa, aaaa, aaaaaa, aaaaaaaa, \dots\}$

Question No:73

(Marks:1)

Vu-Topper RM

Let L be the language of all strings. defined over $\Sigma = \{0,1\}$. ending in 111. Melay machine can have final states.

A. Zero

B. One

C. More than one but finite

D. More than one but infinite

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:74

(Marks:1)

Vu-Topper RM

Let's we have two regular expressions $R1=(xx+yy)$ and $R2=(x+y)$. Which one of the following is the correct regular expression for the Union of $R1$ and $R2$?

- A. $(xx+yy)(x+y)$
- B. $(xx+yy)+(x+y)^*$
- C. $(xx+yy)+(x+y)$**
- D. $((xx+yy)+(x+y))^*$

Question No:75

(Marks:1)

Vu-Topper RM

The state where there is no way to leave after entry, is called _____.

- A. Davey John locker**
- B. initial state
- C. final state
- D. non-final state

Question No:76

(Marks:1)

Vu-Topper RM

Which one of the following word is not accepted by the given regular expression?

- A. aaabab
- B. aaaababb
- C. abbaab**
- D. aabbabb

Question No:77

(Marks:1)

Vu-Topper RM

According to theory of automata there are ___types of languages

- A. One
- B. Two**
- C. Three
- D. Four

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:78

(Marks:1)

Vu-Topper RM

Regular languages are closed under the following operations.

- A. Union only
- B. Concatenation, Closure only
- C. Union, Concatenation and Closure**

Question No:79

(Marks:1)

Vu-Topper RM

Regular languages are closed under the following operations.

- A. Union only
- B. Concatenation, Closure only
- C. Union, Concatenation and Closure**
- D. Regular languages are not closed under any operation

Question No:80

(Marks:1)

Vu-Topper RM

There can be more than ___FA for a certain language but for_ FA there is only one language associated with it:

- A. one, one**
- B. one, two
- C. two, three
- D. two, one

Question No:81

(Marks:1)

Vu-Topper RM

There is one compulsion that each state must have an on outgoing edge forevery input variable in:

- A. Finite Automata
- B. Transition Graph**
- C. Both Finite Automata and Transition Graph
- D. Transition Table

Question No:82

(Marks:1)

Vu-Topper RM

FA is also called

- A. TG
- B. GTG

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. NFA
- D. DFA**

Question No:83 (Marks:1) **Vu-Topper RM**

If r_1 and r_2 are regular expressions then $(r_1 * r_2)$ is _____.

- A. FA
- B. TG
- C. GTG
- D. RE**

Question No:84 (Marks:1) **Vu-Topper RM**

Keep in view the language of all strings ending with 'a' defined over $\Sigma = \{a, b, c, d\}$. For which input letter, we will take a loop on the final state of its transition diagram?

- A. a**
- B. b
- C. c
- D. d

Question No:85 (Marks:1) **Vu-Topper RM**

Which of the following statements is true about NFA with Null String?

- A. Infinite states
- B. Infinite set of letters
- C. Infinite set of transitions
- D. Transition of null string is allowed at any stage**

Question No:86 (Marks:1) **Vu-Topper RM**

Introducing new start state in case of multiple start states is the step no. of proving Kleene's theorem part ||.

- A. 1**
- B. 2
- C. 3
- D. 4

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:87

(Marks:1)

Vu-Topper RM

Which of the following diagrams expresses languages more simply?

- A. FA
- B. NFA
- C. TG
- D. GTG**

Question No:88

(Marks:1)

Vu-Topper RM

The language of all strings defined over alphabet set = {a, b} that does not end with 'a' actually ends with:

- A. b
- B. b and ^**
- C. ^
- D. ^ and a

Question No:89

(Marks:1)

Vu-Topper RM

In NFA having no transition at certain state, FA can be built by introducing:

- A. Empty state**
- B. Combination of states
- C. Initial state
- D. Final state

Question No:90

(Marks:1)

Vu-Topper RM

Formal is also known as

- A. Syntactic language**
- B. Semantic language
- C. Informal language
- D. None of these

Question No:91

(Marks:1)

Vu-Topper RM

There may be more than one transition for a certain letter on a state in:

- A. Finite automata

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

B. Non-Deterministic Finite Automata

C. Transition Table

D. Moore Machine

Question No:92

(Marks:1)

Vu-Topper RM

FA of EVEN language shows null string when

A. Initial state is final as well

B. EVEN does not accept null

C. One state is declared null

D. None of the these

Question No:93

(Marks:1)

Vu-Topper RM

Which of the following statement is true about GTG?

A. Transitions are based on input letters

B. Transitions are based on specified substrings

C. Transitions are based on regular expressions

D. Transitions are based on alphabet set

Question No:94

(Marks:1)

Vu-Topper RM

In GTG, there can be more than one:

A. Start state

B. Final state

C. Start state and final state

D. Null state

Question No:95

(Marks:1)

Vu-Topper RM

GTG for the expression $(aa+aba)^*$ may have minimum number of states:

A. 1

B. 2

C. 3

D. 4

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:96

(Marks:1)

Vu-Topper RM

In regular expressions, the operator '*' stands for

- A. Concatenation**
- B. Iteration
- C. Selection
- D. Add

Question No:97

(Marks:1)

Vu-Topper RM

If r1 is a regular expression then $(r1)^*$ is _____.

- A. A generalized transition graph
- B. A non-deterministic finite automaton
- C. A finite automaton
- D. Also, a regular expression**

Question No:98

(Marks:1)

Vu-Topper RM

Which of the following is the bypass and state elimination step in the context of Kleene's theorem part II proof?

- A. 1
- B. 2
- C. 3
- D. 4**

Question No:99

(Marks:1)

Vu-Topper RM

Which of the following is free of non-determinism?

- A. TG
- B. FA**
- C. NFA
- D. NFA- \wedge

Question No:100

(Marks:1)

Vu-Topper RM

Melay machine to increase the output string in magnitude by 1 is called:

- A. Complementing machine
- B. Incrementing machine**

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. Decrementing machine
- D. Converting machine

Question No:101

(Marks:1)

Vu-Topper RM

Kleene's Theorem Part I expresses the relationship between_____.

- A. FA and TG**
- B. TG and RE
- C. RE and FA
- D. FA and RE

Question No:102

(Marks:1)

Vu-Topper RM

Suppose we have FA3 (which is equal to FA1 + FA2), then the final state of FA3 will be declared final if:

- A. It corresponds to final states of both FA1 and FA2
- B. It corresponds to final states of FA1 only
- C. It corresponds to final states of FA2 only
- D. It corresponds to any of the final states in FA1 or FA2**

Question No:103

(Marks:1)

Vu-Topper RM

Null strings can be specified on edges in:

- A. Finite Automata
- B. Non-Deterministic Finite Automata
- C. Transition Graph**
- D. Melay Machine

Question No:104

(Marks:1)

Vu-Topper RM

What is false about the PALINDROME LANGUAGE?

- A. Every word is reverse of itself.
- B. It is an infinite language.
- C. FA can be build for it.
- D. None of the given option**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:105

(Marks:1)

Vu-Topper RM

While finding RE corresponding to TG, If TG has more than one startstate then

- A. Introduce the new start state**
- B. Eliminate the old start state
- C. Replace the old start stat with final state
- D. Replace the old final state with new start state

Question No:106

(Marks:1)

Vu-Topper RM

All possible combinations of strings of a language including null string is referred as:

- A. Concatenation of a language with itself
- B. Kleene star closure of a language**
- C. Multiplication of language with itself
- D. Addition of a language with itself

Question No:107

(Marks:1)

Vu-Topper RM

$n!$ will be equal to:

- A. $n*n$
- B. $n*(-n)!$
- C. $n*(n-1)$
- D. $n*(n-1)!$**

Question No:108

(Marks:1)

Vu-Topper RM

While finding RE corresponding to a TG, we connect the new start state with the old start state by__transition.

- A. a
- B. b
- C. Null**
- D. RE

Question No:109

(Marks:1)

Vu-Topper RM

In proving Kleene Theorem II, if three states are connected then middle

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

state is removed by connecting first and third state and writing corresponding RE in:

A. Sum

B. Concatenation

C. Difference

D. Asterisk

Question No:110

(Marks:1)

Vu-Topper RM

In ___ there must be transition for all the letters of a string.

A. NFA

B. GTG

C. TG

D. FA

Question No:111

(Marks:1)

Vu-Topper RM

There is no question accepting any language in:

A. FA

B. TG

C. GTG

D. Moore machine

Question No:112

(Marks:1)

Vu-Topper RM

The FA can be drawn for the regular expression $(a+b)^*$ with minimum state(s).

A. 1

B. 2

C. 3

D. 4

Question No:113

(Marks:1)

Vu-Topper RM

Which of the following does not contribute while finding out the length of strings?

A. ^

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. a
- C. b
- D. a+b

Question No:114

(Marks:1)

Vu-Topper RM

The language of all strings defined over alphabet set = {x, y} that ends with same letters will have the maximum length of:

- A. 1
- B. 2
- C. 3
- D. Infinite**

Question No:115

(Marks:1)

Vu-Topper RM

Considering FA1 and FA2 states each. Now FA1+FA2 can have maximum_number of states.

- A. 2
- B. 3
- C. More than 3
- D. None of the given option**

Question No:116

(Marks:1)

Vu-Topper RM

Which one of the following is the RE for the language defined over $\Sigma = \{a,b\}$ having all the words starting with a?

- A. $(a + b)^*$
- B. $aa(a + b)^+$
- C. $a(a + b)^*$**
- D. $a^*(a + b)$

Question No:117

(Marks:1)

Vu-Topper RM

An__ can be considered to be an intermediate structure between Finite automaton and Transition Graph.

- A. RE
- B. GTG

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

C. NFA

D. None of the given options

Question No:118

(Marks:1)

Vu-Topper RM

Suppose a language L1 has 2 states and L2 has 2 states. If we have a machine M that accepts $L1 \cap L2$. Then, the total number of states in M is equal to

A. 2

B. 4

C. 6

D. 8

Question No:119

(Marks:1)

Vu-Topper RM

FA corresponding to an NFA can be built by introducing an empty state for a letter having

A. No transition at certain state

B. One transition at certain state

C. Two transitions at certain state

D. More than two transitions at certain state

Question No:120

(Marks:1)

Vu-Topper RM

Automata is the plural of ___.

A. Automate

B. Automaton

C. Automation

D. Automatic

Question No:121

(Marks:1)

Vu-Topper RM

In NFA having no transition at certain. FA can be built by introducing:

A. Empty state

B. Combination of states

C. Initial state

D. Final state

بري صحبت سے تھائی بہتر ہے اور تھائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:122

(Marks:1)

Vu-Topper RM

If $S = \{ x \}$, then S^* will be _____.

- A. $\{ ^,x,xxx,xxxx,xxxxx,\dots \}$
- B. $\{ ^,x,xx,xxx,xxxx,\dots \}$**
- C. $\{ ^,x,xxx,xxxxx,xxxxxxxx,\dots \}$
- D. $\{ ^,xx,xxxx,xxxxxx,xxxxxxxx,\dots \}$

Question No:123

(Marks:1)

Vu-Topper RM

In TG, the string is supposed to be _____ if there is no path for a string from initial to final state.

- A. Accept null string
- B. Accept all strings
- C. Accept all non-empty strings
- D. Does not accept any string**

Question No:124

(Marks:1)

Vu-Topper RM

In Moore machine, if the length of input string is 9, then the length of output string will be:

- A. 7
- B. 8
- C. 9
- D. 10**

Question No:125

(Marks:1)

Vu-Topper RM

When ODD language is expressed by an FA, then it will have minimum states.

- A. One**
- B. Two
- C. Three
- D. Four

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:126

(Marks:1)

Vu-Topper RM

$[(a + b)(a + b)]^*$, given RE cannot generate the string ____.

- A. abbaabab
- B. abbbbaa
- C. bbbbbb**
- D. abbbbaaaaa

Question No:127

(Marks:1)

Vu-Topper RM

The recursive method for defining a language has _steps.

- A. One
- B. Two
- C. Three**
- D. Four

Question No:128

(Marks:1)

Vu-Topper RM

Consider the following RE:

$a(a + b)b^*$

All of the following words are accepted except ____.

- A. aab
- B. abb
- C. aa
- D. aba**

Question No:129

(Marks:1)

Vu-Topper RM

For every three regular expressions R, S, T, the languages denoted by $R(S \cup T)$ and $(RS) \cup (RT)$ are the ____.

- A. Same**
- B. Different
- C. $R(S \cup T)$ is greater
- D. None of the given options

Question No:130

(Marks:1)

Vu-Topper RM

Alphabet $S = \{a, bc, cc\}$ has ____ number of letters.

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- A. One
- B. Two
- C. Three**
- D. Four

Question No:131 (Marks:1)

Vu-Topper RM

Two FAs are said to be equivalent, if they

- A. Accept null string
- B. Accept same language**
- C. Accept different language
- D. None of the given options

Question No:132 (Marks:1)

Vu-Topper RM

_____ can also help in proving Kleene Theorem III.

- A. NFA**
- B. PDA
- C. Moore machine
- D. Melay machine

Question No:133 (Marks:1)

Vu-Topper RM

Kleene's Theorem Part II expresses the relationship between _____.

- A. FA and TG
- B. TG and RE**
- C. RE and FA
- D. FA and RE

Question No:134 (Marks:1)

Vu-Topper RM

If two RE's generate same language then these RE's are called_____.

- A. Same RE
- B. Equal RE
- C. Similar RE
- D. Equivalent RE**

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:135

(Marks:1)

Vu-Topper RM

Every FA should be__.

- A. Deterministic**
- B. Non-deterministic
- C. Deterministic and non-deterministic
- D. Not depends on language

Question No:136

(Marks:1)

Vu-Topper RM

What statement is true?

- A. A letter is always a combination of symbols**
- B. A letter may consist of one symbol
- C. There is no difference between symbol and letter
- D. Letters and symbols are the same thing

Question No:137

(Marks:1)

Vu-Topper RM

If $\Sigma = \{ab, bb\}$, then Σ^* will not contain

- A. abbbab
- B. bbba**
- C. bbbab
- D. ababbb

Question No:138

(Marks:1)

Vu-Topper RM

Choose the correct word produced by RE $(a + b)^* ab$

- A. abb
- B. abab**
- C. bbbb
- D. aaaa

Question No:139

(Marks:1)

Vu-Topper RM

According to 1st part of the Kleene's theorem, If a language can be accepted by an FA then it can be accepted by a__as well

- A. FA
- B. CFG

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- C. GTG
- D. TG**

Question No:140

(Marks:1)

Vu-Topper RM

“One language can be expressed by ___ GTG”.

- A. Only one
- B. Only two
- C. More than one**

Question No:141

(Marks:1)

Vu-Topper RM

If a TG has more than one start states, then we can make a single startstate by introducing a new state and connecting it with all the previously existing start states by using.

- A. Any infinite string
- B. Single letter string
- C. Null string**
- D. Any finite string

Question No:142

(Marks:1)

Vu-Topper RM

If in a NFA, Λ is allowed to be a label of an edge then that NFA is called

- _____.
- A. TG
- B. RE
- C. NFA with null string**
- D. RE

Question No:143

(Marks:1)

Vu-Topper RM

If we want to make a Moore machine equivalent to mealy machine then

- A. We should ignore the extra character printed by the Moore machine.**
- B. We should ignore the extra character printed by the Mealy machine.
- C. We will make the initial state as a no carry state.
- D. We should not ignore the extra character printed by the Moore

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

machine.

Question No:144

(Marks:1)

Vu-Topper RM

Two machines are said to be equivalent if they print the output string when same input string is run no them.

- A. Same**
- B. Different
- C. Inverse
- D. Null

Question No:145

(Marks:1)

Vu-Topper RM

The length of output in case of__is one more than the length of corresponding input string

- A. Moore machine
- B. Mealy machine**
- C. Incremental machine
- D. Adding machine

Question No:146

(Marks:1)

Vu-Topper RM

A is not a valid transition in

- A. TG
- B. GTG
- C. NFA**
- D. RE

Question No:147

(Marks:1)

Vu-Topper RM

Dead states are also called

- A. John Davey Lockers
- B. Davey John Lockers**
- C. Mutex Lockers
- D. Semaphores

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:148

(Marks:1)

Vu-Topper RM

Language of all strings whose length is odd and number of y's even defined over alphabet set $\Sigma = \{x, y\}$.__will be accepted by the given language.

- A. xxyxyxyyyx
- B. xxyxyxyyyxy**
- C. xxyxyxyyyxx
- D. xxyxyxyyy

Question No:149

(Marks:1)

Vu-Topper RM

If an effectively solvable problem has answer in Yes or NO. then the solution is called

- A. Infinite problem
- B. Decision procedure**
- C. Finite solution
- D. Optimal procedure

Question No:150

(Marks:1)

Vu-Topper RM

If the intersection of two regular languages is regular then the complement of the intersection of these two languages is

- A. Regular**
- B. Irregular
- C. Irregular but finite
- D. Irregular but infinite

Question No:151

(Marks:1)

Vu-Topper RM

If R is regular language and Q is any language (regular/non-regular). Then Pref(in___) is regular.

- A. Q, Q
- B. Q, R**
- C. R, Q
- D. R, R

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:152

(Marks:1)

Vu-Topper RM

The strings or words which do not belong to a language are called of that language

- A. Intersection
- B. Union
- C. Complement**
- D. Quotient

Question No:153

(Marks:1)

Vu-Topper RM

Prime is a _ language.

- A. Finite
- B. Both context free and regular
- C. Regular
- D. Non-regular**

Question No:154

(Marks:1)

Vu-Topper RM

Finite Automaton (FA) must have _____ number of states while a language has ___ words.

- A. Infinite, finite
- B. Finite, finite
- C. Finite, infinite**
- D. Infinite, infinite

Question No:155

(Marks:1)

Vu-Topper RM

The language "PRIME" is an example of ___ language.

- A. Regular but finite
- B. Regular
- C. Non regular but finite
- D. Non regular**

Question No:156

(Marks:1)

Vu-Topper RM

If L1 and L2 are regular languages then which statement is NOT true?

- A. L1 + L2 is always regular

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

- B. L1 L2 is always regular
C. L1/L2 is always regular
D. L1* is always regular

Question No:157

(Marks:1)

Vu-Topper RM

If a language is regular it must generate _____ number of distinct classes.

- A. Finite**
B. Infinite
C. Two
D. three

Question No:158

(Marks:1)

Vu-Topper RM

The operators like (* . +) in the parse tree are considered as

- A. Terminals**
B. Non-terminals
C. Productions
D. Intermediates

Question No:159

(Marks:1)

Vu-Topper RM

Set of all palindromes over {a,b} is:

- A. Regular
B. Regular and finite
C. Regular and infinite
D. Non-regular

Question No:160

(Marks:1)

Vu-Topper RM

Which one of the following languages is a non-regular language?

- A. Even-even
B. Containing double a
C. Start and end with same letter
D. Palindrome

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:161

(Marks:1)

Vu-Topper RM

The language of all strings partition Σ^* into _class(es).

A. One

B. Two

C. Three

D. Four

Question No:162

(Marks:1)

Vu-Topper RM

The language of all strings not beginning with 'b' partitions Σ^* into distinct classes.

A. Two

B. Three

C. Four

D. Five

Question No:163

(Marks:1)

Vu-Topper RM

The values of input (say a & b) do not remain same in one cycle due to

A. NAND gate

B. Clock pulse

C. OR gate

D. NOT gate

Question No:164

(Marks:1)

Vu-Topper RM

In a CFG, the non-terminals are denoted by

A. Small letters

B. Numbers

C. Capital letters

D. Small letters and numbers

Question No:165

(Marks:1)

Vu-Topper RM

$a^* + b^* = (a + b)^*$ this expression is

A. True

B. False

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:166

(Marks:1)

Vu-Topper RM

Length of EVEN-EVEN language is

A. Even

B. Odd

C. Sometimes even & sometimes odd

D. Such language doesn't exist

Question No:167

(Marks:1)

Vu-Topper RM

While finding RE corresponding to TG, we connect the new start state to the old start state by the transition labeled by

A. a

B. b

C. null

D. none of the given options

Question No:168

(Marks:1)

Vu-Topper RM

Given S, Kleene star closure is denoted by

A. S*

B. S+

C. S-

D. None of these

Question No:169

(Marks:1)

Vu-Topper RM

Which of the following steps replaces multiple incoming transition edges with a single one in proving Kleene's theorem part II?

A. 1

B. 2

C. 3

D. 4

Question No:170

(Marks:1)

Vu-Topper RM

If $r_1 = (aa + bb)$ and $r_2 = (a + b)$ then the language $(aa + bb)(a + b)$ will be

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

generated by

- A. $(r_1)(r_2)$
- B. $(r_1 + r_2)$
- C. $(r_2)(r_1)$
- D. $(r_1)^*$

Question No:171

(Marks:1)

Vu-Topper RM

The language having even number of a's and even number of b's defined over $S = \{a, b\}$ is called _____.

- A. **EVEN-EVEN**
- B. ODD-ODD
- C. PALINDROME
- D. FACTORIAL

Question No:172

(Marks:1)

Vu-Topper RM

If L_1' and L_2' are regular languages. Then L_1, L_2 will be

- A. **Regular**
- B. Non regular
- C. May be regular
- D. None of the mentioned

Question No:173

(Marks:1)

Vu-Topper RM

If FA1 corresponding to $(a+b)^*$ then FA1 must accept string/strings

- A. No
- B. Odd length
- C. Even length
- D. **Every**

Question No:174

(Marks:1)

Vu-Topper RM

In FA, initial state can be represented by:

- A. **Drawing an arrow head before that state**
- B. Drawing a circle in that state

بري صحبت سے تھائی بہتر ہے اور تھائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

C. Drawing '+' sign in that state

Question No:175

(Marks:1)

Vu-Topper RM

An FA is a collection of:

A. Finite states, finite transition and finite input letters

B. Infinite states, infinite transition and infinite input letters

C. Only finite states and finite transitions

D. Only infinite states and infinite transitions

Question No:176

(Marks:1)

Vu-Topper RM

NFA with null string has _____ initial state(s)

A. One

B. Two

C. Four

D. Three

Question No:177

(Marks:1)

Vu-Topper RM

The difference between number of states with regular expression $(a + b)$ and $(a + b)^*$ is:

A. 0

B. 1

C. 2

D. 3

Question No:178

(Marks:1)

Vu-Topper RM

A transition graph is converted into a(n) _____ in order to obtain regular expression.

A. FA

B. GTG

C. NFA

D. NFA

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:179

(Marks:1)

Vu-Topper RM

Consider the languages $L1 = \epsilon$ and $L2 = \{a\}$. Which one of the following represents $L1 L2^* \cup L1^*$

A. ϵ

B. a^*

C. All of the mentioned

D. None of the mentioned

Question No:180

(Marks:1)

Vu-Topper RM

If $S = \{a, b\}$ then which of the following RE will generate all possible strings?

A. $a^* + b^*$

B. $(ab)^*$

C. $(a + b)^*$

D. $(ab + ba)^*$

Question No:181

(Marks:1)

Vu-Topper RM

In drawing FA3 (which is equal to $FA1 + FA2$), a state will be declared final if

A. It corresponds to final states of both FA1 and FA2

B. It corresponds to final states of FA1

C. It corresponds to final states of FA2

D. It corresponds to any of the final states in FA1 or FA2

Question No:182

(Marks:1)

Vu-Topper RM

Let $S = \{a, bb, bab, baabb\}$ be a set of strings, which one of the following will not be included in S^* ?

A. baba

B. baabbabb

C. bbbaabb

D. bbbaabaabb

بري صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:183

(Marks:1)

Vu-Topper RM

The length of string "AbBAbcd" defined over $\Sigma = \{A,b,B,c,d\}$ is ____.

- A. One
- B. Two
- C. Five**
- D. Four

Question No:184

(Marks:1)

Vu-Topper RM

In case of finite automaton there _____ be a transition on each _____ for every letter of the alphabet set.

- A. Must, state**
- B. May be, state
- C. Often, edge
- D. Must, edge

Question No:185

(Marks:1)

Vu-Topper RM

Which one of the following word is not accepted by the given regular expression?

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

- A. Ababaaaab
- B. Bababbbba
- C. Baabaabba**
- D. Abbaaabba

Question No:186

(Marks:1)

Vu-Topper RM

1 Let FA1 accepts many strings and FA2 accepts none then $FA1+FA2$ will be equal to:

- A. FA1
- B. FA2
- C. FA2-FA1**
- D. (FA2)

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:187

(Marks:1)

Vu-Topper RM

Edges are expressed with a regular expression in:

A. GTG

Page 23

B. FA

C. NFA

D. TG

Question No:188

(Marks:1)

Vu-Topper RM

NFA corresponding to union of FAs is built by introducing a new start state and connect it to the states originally connected to the old start state with the ----- transitions as the old start state:

Same

Different

Question No:189

(Marks:1)

Vu-Topper RM

----- state is not important in Moore machine.

Final

Start

Question No:190

(Marks:1)

Vu-Topper RM

If we subtract a binary number 1010 from the binary number 1101(ignore the overflow), then the result will be:

1100

0011

Question No:191

(Marks:1)

Vu-Topper RM

In concatenation, we include the initial state of FA2 automatically after the final state of FA1 because of:

We need just one initial state

Question No:192

(Marks:1)

Vu-Topper RM

$a(a+b)^*b + b(a+b)^*a$ is the regular expression of language defined over

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

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

that is _____.

starting with a and ending in a

Question No:193

(Marks:1)

Vu-Topper RM

GTG for the expression $(a+b)^*bb$ may have minimum number of states:

Aaabcbcbacc

Question No:194

(Marks:1)

Vu-Topper RM

Which of the following state is introduced while developing NFA for the closure of an FA?

An initial state which should be final as well

Question No:195

(Marks:1)

Vu-Topper RM

In NFA, if null word (λ) is allowed to be a label of an edge, then that NFA is called _____.

NFA with null string

Question No:196

(Marks:1)

Vu-Topper RM

Which one of the following is a correct word produced by the RE

$(a^*b^*)ab$?

abab

Question No:197

(Marks:1)

Vu-Topper RM

While developing NFA for the union of FA1 and FA2, if there is a loop of 'a' at the initial state of FA1 then the new initial state will have a transition for 'a' that goes straight to:

The initial state of FA1

Question No:198

(Marks:1)

Vu-Topper RM

Let L be the language of all strings, defined over $\Sigma = \{0,1\}$, ending in 111. Which of the following strings are distinguishable with respect to L with z being 11?

111, 101

بري صحبت سے تھائی بہتر ہے اور تھائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:199

(Marks:1)

Vu-Topper RM

Which one of the following word is not accepted by the given regular expression?

abbbbaa

Question No:200

(Marks:1)

Vu-Topper RM

Which of the following is not a step-in elimination of states procedure?

Unify single transitions to multi transitions that contains union of input

Question No:201

(Marks:1)

Vu-Topper RM

In Moore machine the output depends on

The state

Question No:202

(Marks:1)

Vu-Topper RM

While developing NFA for the union of FA1 and FA2, there will be

The initial state of FA1

Question No:203

(Marks:1)

Vu-Topper RM

Let FA3 be an FA corresponding to FA1FA2, then the final state of FA3 must correspond to the final state of

FA2 only

Question No:204

(Marks:1)

Vu-Topper RM

Let FA3 be an FA corresponding to FA1FA2, then the initial state of FA3 must correspond to the initial state of

FA1 or FA2

Question No:205

(Marks:1)

Vu-Topper RM

Mealy machine is equivalent to Moore machine, if we:

Applications of complementing and incrementing machines

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

For More Help Contact What's app 03224021365

Question No:206

(Marks:1)

Vu-Topper RM

In the context of make NFA for the concatenation of FA1 and FA2 (FA2 accepting null string), which of the following option is correct?

Final states in both FAs

Question No:207

(Marks:1)

Vu-Topper RM

In the context of make NFA for the concatenation of FA1 and FA2 (none accepting null string), which of the following option is correct?

No initial state in FA1 only

**Visit My YouTube Channel
For More Important Notes
Channel Name = #VuTopperRM**

Free Of Cost All Study Helping Material Is Available.!

>>> Provide By Vu-Topper Team <<<

Contact On What's app #03224021365

بری صحبت سے تہائی بہتر ہے اور تہائی سے نیک صحبت بہتر ہے

For More Help Contact What's app 03224021365