

Question # 1 of 10 (Start time: 10:05:07 PM)

Total Marks: 1

According to Myhill Nerode theorem, if L generates finite no. of classes then L is.....

▶ Select correct option:

- ☐ Finite
- ☐ Infinite
- ☐ Regular
- ☐ Non regular

OK

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

Question # 2 of 10 (Start time: 10:06:09 PM)

Total Marks: 1

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

▶ Select correct option:

- ☐ Intersection
- ☐ Union
- ☐ Complement
- ☐ Quotient

ok

Question # 3 of 10 (Start time: 10:07:38 PM)

Total Marks: 1

$a^n b^n$ generates the language

▶ Select correct option:

- ☐ regular
- ☐ non regular
- ☐ EQUAL and non regular
- ☐ EQUAL and regular

ok

Question # 4 of 10 (Start time: 10:08:35 PM)

Total Marks: 1

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

▶ Select correct option:

- ☐ NAND gate
- ☐ Clock pulse
- ☐ OR gate
- ☐ NOT gate

OK

In pumping lemma theorem ($x y^n z$) the range of n is

▶ Select correct option:

- ☐ OK
- ☐
- ☐
- ☐

Question # 6 of 10 (Start time: 10:11:10 PM)

Total Marks: 1

For language L defined over $\{a, b\}$, then L partitions $\{a, b\}^*$ into classes

▶ Select correct option:

- ☐
- ☐
- ☐ OK
- ☐

Question # 7 of 10 (Start time: 10:11:43 PM)

Total Marks: 1

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

▶ Select correct option:

- ☐ True
- ☐ False
- OK

Question # 8 of 10 (Start time: 10:12:20 PM)

Total Marks: 1

A non regular language can be represented by

▶ Select correct option:

- ☐ RE
- ☐ FA
- ☐ TG
- ☐ None of the given options
- OK

Question # 9 of 10 (Start time: 10:12:41 PM)

Total Marks: 1

Set of all palindromes over $\{a,b\}$ is regular

▶ Select correct option:

- ☐ True
- ☐ False
- OK

Question # 10 of 10 (Start time: 10:13:05 PM)

Total Marks: 1

The complement of a regular language is also a regular

▶ Select correct option:

- ☐ True
- ☐ False
- OK

Question # 8 of 10 (Start time: 10:24:38 PM)

Total Marks: 1

Two languages are said to belong to same class if they end in the same state when they run over an FA, that state

▶ Select correct option:

- ☐ Must be final state
- ☐ May be final state or not
- ☐ May be start state or not
- OK

☐ None of the given option

Question # 9 of 10 (**Start time: 10:25:54 PM**)

Total Marks: 1

If L_1 and L_2 are regular languages then which statement is NOT true?

▶ Select correct option:

☐ $L_1 + L_2$ is always regular

☐ $L_1 L_2$ is always regular

☐ L_1/L_2 is always regular

OK

☐ L_1^* is always regular

Question # 6 of 10 (Start time: 10:32:51 PM)

Total Marks: 1

For a non regular language there exist FA

▶ Select correct option:

- ☐ One
 - ☐ At least one
 - ☐ At most one
 - ☐ No
- OK