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1. While finding RE corresponding to TG, if TG has more than one start state, then what action should be taken?
a) Replace the old final state with the new start state
b) Eliminate the old start state
c) Introduce the new start state
d) Replace the old start state with the final state
Correct answer: b) Eliminate the old start state
2. An FA is a collection of:
a) Finite states, finite transitions, and finite input letters
b) Infinite states, infinite transitions, and infinite input letters
c) Only infinite states and infinite transitions
d) Only finite states and finite transitions
Correct answer: a) Finite states, finite transitions, and finite input letters
3. If S = {a}, then which option correctly represents S multiplied by {a, aaa, aaaaaa, aaaaaaa,}?
a) S{a, aaa, aaaaa, aaaaaaa,}
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c) {a, aaa, aaaa, aaaaa,...}

d) {a, aa, aaa, aaaa,...}

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Correct answer: a) S{a, aaa, aaaaaa, aaaaaaa,...}

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a) Final state,	0.1
b) Final state	, null state
c) Initial state	e, null state
d) Initial state	e, final state
Correct answ	ver: a) Final state, initial state
5. Which state	ment is false about the PALINDROME LANGUAGE?
a) An FA can	be built for it.
b) Every word	d is the reverse of itself.
c) It is an infi	nite language.
	ne given options.
Correct answ	ver: b) Every word is the reverse of itself.
6. In an FA, wh	en there is no path from the initial state to the final state, then that FA
a) Accepts all	strings.
b) Does not a	accept any string.
c) Accepts all	non-empty strings.
d) None of th	ne given ontions

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Correct answer: b) Does not accept any string. 7. Which one of the following words is not accepted by the given regular expression: (a+b)*(aaa+bbb)(a+b)*ab? a) abab b) baaaa c) bbbb d) ababaaaab Correct answer: c) bbbb 8. If we have the regular expression (a+b)*(aaa + bbb)(a+b)*, then we can draw a TG for the provided RE with a minimum number of _ a) 0 b) 1 c) 2 d) 3

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