

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Type	Difficulty	Correct	Option1	Option2	Option3	Option4
15	Halting problem is an example for?		Single Choice Questions	Single Choice Questions	2	Single Choice	Brilliant	undecidable problem	Decidable problem	undecidable problem	complete problem	traceable problem
16	if $M = (\{q_0, q_1, q_2, q_3\}, \{0, 1\}, \delta, q_0, \{q_3\})$ then Final state is _____		Glossary I	Glossary I	2	Single Choice	Brilliant	{q3}	{0,1}	{q3}	{q0,q1,q2,q3}	q0
17	if $M = (\{q_0, q_1, q_2, q_3\}, \{0, 1\}, \delta, q_0, \{q_3\})$ then alphabet is _____		Glossary I	Glossary I	2	Single Choice	Brilliant	{0,1}	{q0,q1,q2,q3}	{0,1}	q0	{q3}
18	if $M = (\{q_0, q_1, q_2, q_3\}, \{0, 1\}, \delta, q_0, \{q_3\})$ total number of states are _____		Glossary I	Glossary I	2	Single Choice	Brilliant	{q0,q1,q2,q3}	{q0,q1,q2,q3}	{0,1}	q0	{q3}
19	if $M = (\{q_0, q_1, q_2, q_3\}, \{0, 1\}, \delta, q_0, \{q_3\})$ then initial state is _____		Glossary I	Glossary I	2	Single Choice	Brilliant	q0	{q0,q1,q2,q3}	{0,1}	q0	{q3}
20	In Moore machine, output is produced over the change of: _____		Glossary II	Glossary II	2	Single Choice	Brilliant	states	Transducers	states	Input+1	6-Tuples
21	For a give Moore Machine, Given Input="101010", thus the output would be of length _____		Glossary II	Glossary II	2	Single Choice	Brilliant	Input+1	Transducers	states	Input+1	6-Tuples
22	There are _____ in the definition of Moore Machine.		Glossary II	Glossary II	2	Single Choice	Brilliant	6-Tuples	Transducers	states	Input+1	6-Tuples
23	Mealy and Moore machine can be categorized as _____		Glossary II	Glossary II	2	Single Choice	Brilliant	Transducers	Transducers	states	Input+1	6-Tuples
24	unrestricted grammar _____		Glossary III	Glossary III	2	Single Choice	Brilliant	Type 0	Type 1	Type 0	Type 2	Type 3
25	Regular Grammar _____		Glossary III	Glossary III	2	Single Choice	Brilliant	Type 3	Type 1	Type 0	Type 2	Type 3
26	context free grammar _____		Glossary III	Glossary III	2	Single Choice	Brilliant	Type 2	Type 1	Type 0	Type 2	Type 3
27	context sensitive grammar _____		Glossary III	Glossary III	2	Single Choice	Brilliant	Type 1	Type 1	Type 0	Type 2	Type 3
28	A TM is expressed as a 7-tuple $(Q, T, B, \delta, q_0, F)$ where B denote _____		Glossary IV	Glossary IV	2	Single Choice	Brilliant	blank symbol	tape alphabet	initial state	blank symbol	transition function
29	A TM is expressed as a 7-tuple $(Q, T, B, \delta, q_0, F)$ where δ , denote _____		Glossary IV	Glossary IV	2	Single Choice	Brilliant	transition function	tape alphabet	initial state	blank symbol	transition function
30	A TM is expressed as a 7-tuple $(Q, T, B, \delta, q_0, F)$ where T, denote _____		Glossary IV	Glossary IV	2	Single Choice	Brilliant	tape alphabet	tape alphabet	initial state	blank symbol	transition function
31	A TM is expressed as a 7-tuple $(Q, T, B, \delta, q_0, F)$ where q_0 , denote _____		Glossary IV	Glossary IV	2	Single Choice	Brilliant	initial state	tape alphabet	initial state	blank symbol	transition function
32	RE languages are also called as Turing _____.		Glossary V	Glossary V	2	Single Choice	Brilliant	recognizable languages	TRUE	recognizable languages	decidable languages	FALSE
33	REC languages are also called as Turing _____.		Glossary V	Glossary V	2	Single Choice	Brilliant	decidable languages	TRUE	recognizable languages	decidable languages	FALSE
34	Recursive languages are subset of recursive enumerable language		Glossary V	Glossary V	2	Single Choice	Brilliant	TRUE	TRUE	recognizable languages	decidable languages	FALSE
35	Recursive enumerable languages are subset of Recursive languages		Glossary V	Glossary V	2	Single Choice	Brilliant	FALSE	TRUE	recognizable languages	decidable languages	FALSE