TCS_Quiz_sh20[co5]

Total points 10/10

Name of student *

AMEY THAKUR

Class *

TE-B

Roll no *

50

✓ 1]Consider a language L for which there exists a Turing machine ™, T, that accepts every word in L and either rejects or loops for every word that is not in L. The language L is * 1/1

- NP hard
- NP complete
- recursive
- ◉ recursively enumerable ✓

✓ 2]Which of the functions can a turing machine not perform? * 1/1

- Copying a string
- Deleting a symbol
- Accepting a pal
- ◉ Inserting a symbol ✓

✓ 3]If T1 and T2 are two turing machines. The composite can be represented using the expression: * 1/1

- ◉ T1T2 ✓
- T1 U T2
- T1 X T2
- None of the mentioned

✓ 4]Which of the following a turing machine does not consist of? * 1/1

- input tape
- head
- state register
- ◉ none of the mentioned ✓

✓ 5]The value of n if turing machine is defined using n-tuples: * 1/1

- ○ 6
- ◉ 7 ✓
- ○ 8
- ○ 5

✓ 6]If d is not defined on the current state and the current tape symbol, then the machine _____ * 1/1

- ○ does not halts
- ◉ halts ✓
- ○ goes into loop forever
- ○ none of the mentioned

✓ 7]Statement: Instantaneous descriptions can be designed for a Turing machine.State true or false: * 1/1

- ◉ true ✓
- ○ false

✓ 8] Which of the following are the models equivalent to Turing machine? * 1/1

- ○ Multi tape turing machine
- ○ Multi track turing machine
- ○ Register machine
- ◉ All of the mentioned ✓

✓ 9]The language accepted by a turing machine is called _____ * 1/1

- ○ Recursive Ennumerable
- ○ Recursive
- ◉ Both (a) and (b) ✓
- ○ None of the mentioned

✓ 10]Universal TM influenced the concept of * 1/1

- ○ stored program computers
- ○ interpretative implementation of program¬ming language
- ○ computability
- ◉ all of these ✓