Midterm Exam (Second Semester) 2020/2021

Course: Artificial Intelligence Course Code:CS460

Level: 4th Lecturer: Dr. Ahmed Fouad Ali Total marks: 40 Time allowed: 30 min.	Date: 26/4/2021
1. Enter Your Full Name? *	
أماني حمدي عودة محمد	
2. Enter Your Section Number? *	
1	
3. Theselecting actions based on point (1 Point)	ercepts in learning agent approach. *
problem generator	
critic	
learning element	
performance element	

4. The art of creating machines that perform functions that require intelligence when performed by people is an example of acting rationally in Al. * (1 Point)	
○ True	
False	
5. In the N-queens problem, any state can be designated as the initial state. * (1 Point)	
True	
False	
6. In a learning agent, Critic provides feedback on the agent's performance based on a fixed performance standard. * (1 Point)	
True	
○ False	
7. Goal-based acts by reasoning about which actions achieve the goal. * (1 Point)	
True	
○ False	
8. Problem formulation is the process of deciding what actions and states to consider, given a goal. * (1 Point)	
True	
False	

9. In a Turing test, a computer passes the test if a human interrogator can tell the written responses come from a person or from a computer. * (1 Point)
○ True
False
10. Optimality means the algorithm guaranteed to find a solution when there is one. * (1 Point)
True
False
11. The exciting new effort to make computers think is called * (1 Point)
thinking rationally
acting rationally
thinking humanly
acting humanly
12. The agent program maps any given percept sequence to an action. * (1 Point)
True
False

13. The agents take future events into consideration * (1 Point)
model based
utility based
simple reflex
goal based
14. The frontier in breadth-first search uses a * (1 Point)
linked list
priority queue
queue
stack
15. A Part-picking robot is an example of a single agent environment. * (1 Point)
True
☐ False
16. The determines whether a given state is a goal state in the problem formulation. * (1 Point)
transition model
goal test
initial state

()	action
	action

17. In a problem formulation, a description of what each action does is the goat test step. *(1 Point)
True
False
18. Roads and pedestrians are actuators in a taxi driver agent. * (1 Point)
True
False
19. The explored set is used in a search. * (1 Point)
exploration
exploitation
○ tree
graph
20. A graph can have loops and self-loops. * (1 Point)
True
False

21. The study of how to make computers do things at which, at the moment, people are better is called * (1 Point)
thinking rationally
acting rationally
thinking humanly
acting humanly
22. Simple reflex agents have an internal state which is used to keep track of past states of the world. * (1 Point)
☐ True
False
23. The sensors detect all aspects that are relevant to the choice of action in
fully observable
on non observable
partially observable
semi observable
24. A tree has edges. * (1 Point)
n-1
zero

O n
n +1
25. The study of the design of intelligent agents is an example of acting humanly in Al. * (1 Point)
True
False
26. The agent function is a concrete implementation, running within some physical system. * (1 Point)
True
False
27. The node has no parent in the tree search. * (1 Point)
o root
predecessor
successor
○ leaf
28. Breadth-first search (BFS) is called path first. * (1 Point)
deepest
shortest

longest
cheapest
29. The law of thought approach is an example of thinking rationally in AI * (1 Point)
True
☐ False
30. The frontier in the depth-first search uses a* (1 Point)
linked list
priority queue
queue
stack
31. The suggests actions that will lead to new and informative experiences in learning agent approach. * (1 Point)
problem generator
critic
learning element
performance element
32. Breadth-first search (BFS) is an example of a (an) search. * (1 Point)

blind
goal based
guided
informed
33. A crossword puzzle is an example of aagent. * (1 Point)
double
single
semi
multi
34. Theagents are based on condition-action rules. * (1 Point)
model based
utility based
simple reflex
goal based
35. The goal test in the 8-queens problem isqueens on the board without any attack. * (1 Point)
one
o no
all

o four

ne agents have a function to measure of happiness. * Point)
model based
utility based
simple reflex
goal based
ne Turing test approach is an example of* Point)
thinking rationally
acting rationally
thinking humanly
acting humanly
ne cognitive modeling approach is an example of thinking humanly in Al. * Point)
True
False
exi driving is an example of a environment. * Point)
fully observable
non observable

•	partially observable
	semi observable
40	 Simple reflex agents are agents which in addition to state information have a kinc of goal information that describes desirable situations. * (1 Point)
	True
	False
41	. Taxi driving is an example of a deterministic environment. * (1 Point)
	True
	False
42	. A crossword puzzle is an example of a fully observable environment. * (1 Point)
	True
	○ False

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