Program: BE Computer Engineering

Curriculum Scheme: Revised 2012

Examination: Final Year Semester VII

Course Code: CPC703 and Course Name: Artificial Intelligence

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Wumpus World is a classic problem, best example of
Single player Game
Two player Game
Reasoning with Knowledge
Knowledge based Game
A) Knowledge base (KB) is consists of set of statements. B) Inference is deriving a new sentence from the KB. Choose the correct option.
•
A is true, B is true A is false, B is false
A is true, B is false
A is false, B is true
Knowledge and reasoning also play a crucial role in dealing with environment.
Completely Observable
Partially Observable
Neither Completely nor Partially Observable
Only Completely and Partially Observable
Which of the following is not the style of inference?
Forward Chaining
Backward Chaining
Resolution Refutation
Modus Ponen
Which among the following could the Existential instantiation of $\exists x$ Crown(x) ^ OnHead(x, Johnny)?
Crown(John) ^ OnHead(John, Jonny)
Crown(y) ^ OnHead(y, y, x)
Crown(x) ^ OnHead(x, Jonny)

Q6.	An omniscient agent knows the outcome of its
Option A:	actions Actual
Option B:	Approximate
Option C:	
	Supposed
Option D:	Imagined
07	Forward chaining systems are whore as backward
Q7.	Forward chaining systems are where as backward chaining systems are
Option A:	Goal-driven, goal-driven
Option B:	
Option C:	Goal-driven, data-driven
•	Data-driven, goal-driven
Option D:	Data-driven, data-driven
Q8.	Which search implements stack operation for searching the states?
Option A:	Depth-limited search
Option B:	Depth-first search
Option C:	Breadth-first search
Option D:	None of the mentioned
Option D.	
Q9.	Bayesian classifiers is
Option A:	A class of learning algorithm that tries to find an optimum
Option A.	classification of a set of examples using the probabilistic theory.
Option B:	Any mechanism employed by a learning system to constrain the
Option D.	search space of a hypothesis
Option C:	An approach to the design of learning algorithms that is inspired
	by the fact that when people encounter new situations, they often
	explain them by reference to familiar experiences, adapting the
	explanations to fit the new situation.
Option D:	Simple form of Neural network
Q10.	Lifted inference rules require finding substitutions that make
	different logical expressions looks identical.
Option A:	Existential Instantiation
Option B:	Universal Instantiation
Option C:	Unification
Option D:	Modus Ponen
011	
Q11.	Which of the following is not Planning Algorithm
Option A:	Conditional Order
Option B:	Partial Order
Option C:	Hierarchical Order
Option D:	Simulated annealing
012	
Q12.	In unification, if two expressions are identical then the result is
Option A:	Nil
Option B:	Same
Option C:	Square of the expression
Option D:	New expression

Q13.	The first step in Resolution is
Option A:	Perform Unification
Option B:	Convert everything to CNF
Option C:	Start solving the problem
Option D:	Perform Diversification
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Q14.	The unification of Knows (John , x) and (x, OJ) is
Option A:	(John, OJ)
Option B:	(x, x)
Option C:	(John, OJ) and (x, x)
Option D:	Fails
015	
Q15.	Which of the following connectives are not part of the prepositional logic
Option A:	
Option B:	∧ v
Option C:	\rightarrow
Option D:	Σ
	2
Q16.	Forward Chaining starts with sentences in the KB
Option A:	Quantifiable
Option B:	Non-Quantifiable
Option C:	Atomic
Option D:	Open ended
Q17.	Which of the following is not the Inference Method
Option A:	Unification
Option B:	Forward Chaining
Option C:	Resolution
Option D:	Nested quantifiers
Q18.	Which of the following is a quantifier in First order Predicate
	Logic
Option A:	Limited
Option B:	Existential
Option C:	Global
Option D:	Partial
Q19.	Hill climbing sometimes called because it grabs a
	good neighbour state without thinking ahead about where to go
	next.
Option A:	Needy local search
Option B:	Heuristic local search
Option C:	Greedy local search
Option D:	Optimal local search
020	
Q20.	A goal directed hill-climbing agent has failed to locate the highest
	point, having instead become stuck on a lower hill in the vicinity of

its home base. This is the ` problem'.
Global optimum
Global surface
Local optimum
Local surface
In Problem Solving Agents what type of mechanism is followed
formulate, search, execute
search, formulate, execute
execute, formulate, search
formulate, execute, search
Which of the following is not an example of Uninformed Search Methods?
Breadth First Search
Depth First Iterative Deepening
Depth Limited Search
A* Search
A Chess game is the example of multiagent.
Competitive
Cooperative
Challenging
Simple
The learning element does not use feedback from the on how the agent is doing
Critic
Code
Sensors
Actuators
Which of the following is not the Type of Agents
Goal-based agents
Simple reflex agents
Utility-based agents
Environment-based agent