Program: BE Information Technology

Curriculum Scheme: Revised 2016

**Examination: Final Year Semester VII** 

Course Code: ITC 703 and Course Name: Artificial Intelligence

Time: 1 hour Max. Marks: 50

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

Q1.	What is the action of task environment in artificial intelligence?
Option A:	Problem
Option B:	Solution
Option C:	Agent
Option D:	Observation
Q2.	Which component tells what things are surrounding the agent.
Option A:	Performance
Option B:	Environment
Option C:	Actuator
Option D:	Sensor
Q3.	Greedy search strategy chooses the node for expansion in
Option A:	Shallowest
Option B:	Deepest
Option C:	The one closest to the goal node
Option D:	Minimum heuristic cost
Q4.	Which search is implemented with an empty first-in-first-out queue?
Option A:	Depth-first search

Option B:	Breadth-first search
Option C:	Bidirectional search
Option D:	Simple reflex search
	Double first seemb always arrande the
Q5.	Depth-first search always expands the node in the current fringe of the search tree.
Option A:	Shallowest
Option B:	Child node
Option C:	Deepest
Option D:	Minimum cost
Q6.	Breadth-first search always expands the node in the current fringe of the search tree.
Option A:	Shallowest
Option B:	Child node
Option C:	Deepest
Option D:	Minimum cost
Q7.	Following is/are the components of the partial order planning.
Option A:	Bindings
Option B:	Goal
Option C:	Causal Links
Option D:	All of the mentioned
Q8.	Standard planning algorithms assumes environment to be
Option A:	Deterministic
Option B:	Fully observable
Option C:	Single agent
Option D:	Stochastic
Q9.	To eliminate the inaccuracy problem in planning problem or partial order planning problem we can use data structure/s.

Option A:	Stack
Option B:	Queue
Option C:	BST (Binary Search Tree)
Option D:	Planning Graphs
Q10.	What is the other name for forward state-space search?
Option A:	Progression planning
Option B:	Regression planning
Option C:	Test planning
Option D:	State planning
Q11.	What is the main advantage of backward state-space search?
Option A:	Cost
Option B:	Actions
Option C:	Relevant actions
Option D:	Step cost
Q12.	Standard planning algorithms assumes environment to be
Option A:	Deterministic
Option B:	Fully observable
Option C:	Single agent
Option D:	Stochastic
Q13.	How the Bayesian network can be used to answer any query?
Option A:	Full distribution
Option B:	Joint distribution
Option C:	Partial distribution
Option D:	All of the mentioned

Q14.	Which is not Familiar Connectives in First Order Logic?
Option A:	and
Option B:	if
Option C:	or
Option D:	not
Q15.	Inference algorithm is complete only if
Option A:	It can derive any sentence
Option B:	It can derive any sentence that is an entailed version
Option C:	It is truth preserving
Option D:	It can derive any sentence that is an entailed version & It is truth preserving
Q16.	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
Q17.	A constructive approach in which no commitment is made unless it is necessary to do so is  ————
Option A:	Least commitment approach
Option B:	Most commitment approach
Option C:	Nonlinear planning
Option D:	Opportunistic planning
Q18.	What is Coreference Resolution?
Option A:	Anaphora Resolution
Option B:	Given a sentence or larger chunk of text, determine which words ("mentions") refer to the same objects ("entities")

All of the mentioned
None of the mentioned
The more general task of coreference resolution also includes identifying so-called "bridging relationships" involving referring expressions.
TRUE
FALSE
NA
NA NA
Given a sound clip of a person or people speaking, determine the textual representation of the speech.
Text-to-speech
Speech-to-text
Speech
Text
Speech Segmentation is a subtask of
Text Recognition
Image Recognition
Speech Recognition
Image and Text Recognition Recognition
In linguistic morphology is the process for reducing inflected words to their root form.
Rooting
Stemming
Text-Proofing

	OCR (Optical Character Recognition) uses
Q23.	OCR (Optical Character Recognition) uses
Option A:	NLP
Option B:	Text-Proofing
Option C:	Stemming
Option D:	Both Rooting & Stemming
Q24.	Which algorithm will work backward from the goal to solve a problem?
Option A:	Forward chaining
Option B:	Backward chaining
Option C:	Hill-climb algorithm
Option D:	Minimax Algorithm
Q25.	Which algorithm are in more similar to backward chaining algorithm?
Option A:	Depth-first search algorithm
Option B:	Breadth-first search algorithm
Option C:	Hill-climbing search algorithm
Option D:	Minimax Algorithm