Started on	Thursday, 9 May 2024, 10:59 PM	
State	Finished	
Completed on	Thursday, 9 May 2024, 11:23 PM	
Time taken	24 mins 1 sec	
Grade	6.25 out of 10.00 (62.5%)	
Question 1		
Correct		
Mark 1.00 out of 1.00		
In Naive Bayes classification, what is the assumption made regarding the relationship between features?		

- a. They are mutually exclusive
- o b. They are linearly correlated
- d. They are equally important

The correct answer is: They are conditionally independent given the class

Question 2 Correct Mark 1.00 out of 1.00

What is the time complexity of A* Search with an admissible heuristic?

- a. O(b^m)
- b. O(b^(d/2))
- c. It depends on the heuristic

The correct answer is: It depends on the heuristic

Correct	
Mark 1.00 ou	it of 1.00
How do	es iterative deepening depth-first search (IDDFS) combine the advantages of BFS and DFS?
○ a.	It is always faster than both BFS and DFS
b.	It has the memory efficiency of DFS and the completeness of BFS \checkmark
○ c.	It guarantees finding the optimal solution
O d.	It explores nodes in a non-linear order
The corr	ect answer is: It has the memory efficiency of DFS and the completeness of BFS
Question 4	
Incorrect	
Mark 0.00 o	ut of 1.00
a.b.	It is not guaranteed to find the optimal solution × It requires more memory
0 -	It does not support heuristics estimates
○ c.	it does not support neurisites estimates
○ d.	It is computationally expensive
○ d.	
○ d.	It is computationally expensive
d. The corr Question 5 Correct	It is computationally expensive ect answer is: It is computationally expensive
d. The corr	It is computationally expensive ect answer is: It is computationally expensive
d. The corr Question 5 Correct Mark 1.00 ou	It is computationally expensive ect answer is: It is computationally expensive
Question 5 Correct Mark 1.00 ou	It is computationally expensive ect answer is: It is computationally expensive at of 1.00 f the following is NOT a desiered property of a good heuristic function in A* Search?
d. The corr Question 5 Correct Mark 1.00 ou	It is computationally expensive ect answer is: It is computationally expensive at of 1.00 f the following is NOT a desiered property of a good heuristic function in A* Search? Exhaustiveness ✓
Question 5 Correct Mark 1.00 ou Which o	It is computationally expensive ect answer is: It is computationally expensive attof1.00 f the following is NOT a desiered property of a good heuristic function in A* Search? Exhaustiveness Admissibility
Ouestion 5 Correct Mark 1.00 ou Which o	It is computationally expensive ect answer is: It is computationally expensive at of 1.00 f the following is NOT a desiered property of a good heuristic function in A* Search? Exhaustiveness ✓

https://cetpgex.iitp.ac.in/moodle/mod/quiz/review.php?attempt=15286&cmid=651

Question 6	
Correct	
Mark 1.00 ou	tt of 1.00
In Unifo	rm Cost Search (UCS), if there are two paths to the same node with different costs, which path will the algorithm choose?
○ a.	It depends on the implementation of the algorithm
b.	The path with the lowest path cost \checkmark
○ c.	The path with the highest path cost
O d.	The path with the lowest heuristic value
The corr	ect answer is: The path with the lowest path cost
Question 7	
Partially corr	ect
Mark 0.25 ou	t of 1.00
Which a	pproach is commonly used to handle continuous features in Naive Bayes classification? Discretization
a.b.c.	Discretization
a.b.c.	Discretization Kernel density estimation Binning
a.b.c.d.	Discretization Kernel density estimation Binning
a.b.c.d.	Discretization Kernel density estimation Binning Gaussian distribution
a. b. c. d.	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution
a. b. c. d.	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution
a. b. c. d. The correct Question 8 Correct Mark 1.00 ou	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution
a. b. c. d. The correct Question 8 Correct Mark 1.00 ou	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution
a. b. c. d. The correct Question 8 Correct Mark 1.00 ou	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution
a. b. c. d. The correct Mark 1.00 ou In Naive	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution atof1.00 Bayes classification, what is the purpose of the maximum likelihood estimation?
a. b. c. d. The correct Mark 1.00 ou In Naive a.	Discretization Kernel density estimation Binning Gaussian distribution ect answer is: Gaussian distribution ttof1.00 Bayes classification, what is the purpose of the maximum likelihood estimation? To calculate prior probabilities

The correct answer is: To estimate the probability distribution of each feature given each class

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Question 9 Incorrect Mark 0.00 or	utof1.00		
74a1 K 0.000 0	Mark 0.00 out of 1.00		
What is	the primary limitation of using BFS in a search problem with infinite-depth search space?		
○ a.	It may never terminate if the solution is not found		
O b.	It is not optimal		
○ c.	It is not complete		
d.	It requires exponential memory ×		
The corr	ect answer is: It is not complete		
Question 10			
Incorrect Mark 0.00 o	utof1.00		
In Naive	Bayes classification, if a categorical feature has a large number of categories, what problem might arise?		
a.	Sparsity ×		
O b.	Overfitting		
O c.	Underfitting		
○ d.	None of the above		

The correct answer is: None of the above