Started on	Friday, 26 January 2024, 8:00 PM
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Completed on	Friday, 26 January 2024, 8:43 PM
	43 mins 27 secs
Grade	Not yet graded
Question <b>1</b>	
Correct	
Mark 0.50 out of 0.50	
Who is known as th	ne -Father of ΔI"?
WIIO IS KIIOWII as ti	ic Taulet of All:
Fisher Ada	
<ul><li>Alan Turing</li></ul>	
John McCarth	y 🗸
<ul> <li>Allen Newell</li> </ul>	
<del>-</del> 1	
The correct answers	s are: Alan Turing, John McCarthy
Question <b>2</b>	
Correct	
Mark 0.50 out of 0.50	
If a robot is able to	change its own trajectory as per the external conditions, then the robot is considered as the
Mobile	
Open Loop	
Intelligent	· ·
The correct answer	is: Intelligent
Question <b>3</b>	
Correct	
Mark 0.50 out of 0.50	
A technique that wa	as developed to determine whether a machine could or could not demonstrate the artificial intelligence known as
the	The state of the distribution of the state o
_	
<ul> <li>Boolean Algeb</li> </ul>	ora
Turing Test	✓
O Logarithm	
<ul> <li>Algorithm</li> </ul>	
The correct answer	
	is: Turing Test

Question 4
Correct
Mark 0.50 out of 0.50
The main tasks of an Al agent are
Input and Output
Moment and Humanly Actions
<ul> <li>Perceiving, thinking, and acting on the environment</li> </ul>
None of the above
The correct answer is: Perceiving, thinking, and acting on the environment
Question <b>5</b>
Complete
Marked out of 1.00
Which of the following are ML methods? (Select an option as well write explanation for each option below about why it is correct and why it is not correct.)
a) Based on human supervision
b) Supervised Learning
c) Semi-reinforcement Learning
d) All of the above
Answer: b) Supervised learning - It is a paradigm where machines learn and build a model based on labelled data set to make
predictions or decisions.
Explanations:
a) Based on human supervision - Not ML method as the phrase indicates human supervision. However supervised learning ML
method involves machines learning or getting trained based on a labeled data set
c) Semi-reinforcement learning - There is a semi-supervised learning method but there is not any generally accepted concept or
technique of semi-reinforcement learning as an ML technique! d) All of the above - Not a ML method.
d) All of the above - Not a ML method.

Question <b>6</b>
Complete
Mark 1.00 out of 1.00
Write whether the following statement is True or False. (Justify your answer with proper explanation)
Statement: The term neural network is a reference to neurobiology, but although some of the central concepts in deep learning were
developed in part by drawing inspiration from our understanding of the brain, deep-learning models are not models of the brain. There's no evidence that the brain implements anything like the learning mechanisms used in modern deep-learning models
True - as the evidence that brain works or implements the modern deep-learning concepts or vice versa is NOT established tangibly. However, the correspondence or evidence is more conceptual and heuristic while the modern day deep-learning methods draw inspiration from the brain's functioning and architecture, the level of abstraction and complexity in ANNs is far simpler than biological neural networks.
Comment:
Question <b>7</b>
Correct
Mark 0.50 out of 0.50
Which statement is true? <ul> <li>■ Deep learning is a mathematical framework for learning representations from data</li> <li>■ Deep learning is a biological framework for learning representations from brain data</li> </ul>
Deep learning is an analogue framework for learning representations from data
Deep learning is a digital framework for learning representations from data
The correct answer is: Deep learning is a mathematical framework for learning representations from data

Question <b>8</b>	
Correct	
Mark 0.50 out of 0.50	
What is the sum of all the diagonal elements of a square matrix?	
O Diagonal matrix	
Trace of a matrix	~
O Identity matrix	
O Both A and B	
The correct answer is: Trace of a matrix	

Question **9**Complete

Mark 1.00 out of 1.00

Let u and v be 3-dimensional vectors, where specifically

$$u = \begin{bmatrix} 4 \\ -4 \\ -3 \end{bmatrix}$$

and

$$v = \begin{bmatrix} 4 \\ 2 \\ 4 \end{bmatrix}_{a}$$

what is  $u^T v$  ?

Comment:

Question 10	
Correct	
Mark 0.50 out of 0.50	
You have a dataset of different flowers containing their petal lengths and color. Your model has to predict the type of flower for gi petal lengths and color. This is a-	ven
Regression task	
Classification task	<b>~</b>
Clustering task	
○ None	
The correct answer is: Classification task	
Question 11	
Question I I	
Mark 0.00 out of 1.00	
INIAIR 0.00 Out 01 1.00	
In simple linear regression, if you change the input value by 1 then the output value will be changed by: (Multiple answers might correct.)	be
□ a. 1	
☑ b. The slope parameter	<b>~</b>
c. The intercept parameter	×
□ d. None	
Your answer is incorrect.	
The correct answer is:	
The slope parameter	

Question 12 Complete
Mark 1.00 out of 1.00
The equation of the regression line is $y = 8x - 2$ . Compute the residual for the point (4, 28)
=30-28=2
Comment:
Question 13
Correct
Mark 0.50 out of 0.50
Which rule is followed by the Backpropagation algorithm?
Static Rule
O Dynamic Rule
<ul><li>◎ Chain Rule</li></ul>
○ None
The correct answer is: Chain Rule
Question 14
Correct  Mark 0.50 out of 0.50
Mark 0.50 det 01 0.50
Neural networks are trained based on algorithm?
Backpropagation
Front Propagation
Signal Propagation
Channel Propagation
The correct answer is: Backpropagation

Question <b>15</b> Incorrect	
Mark 0.00 out of 0.50	
What are the primary features of a transmitter?	
Lower clock speed	
Lower transmitting power	
<ul><li>Higher clock speed</li></ul>	×
O None of these	
The correct answer is: None of these	
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