



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme – B.Sc.(ANCS)-Hons-2020 Course Name – Introduction to Modern Technologies Course Code - BNCSD501C (Semester V)

Full Marks : 60 Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Trace the learning algorithms where ML is a field of AI consist
 - a) Improve their performance
 - c) Over time with experience
- b) At executing some task

computer

d) All of the mentioned

d) All of the Mentioned

- (ii) Relate Weak AI is
 - a) a set of computer programs that produce output that would be considered to reflect intelligence if it were generated by humans
 - c) the embodiment of human intellectual capabilities within a computer
- (iii) Review Strong Artificial Intelligence is
 - a) the embodiment of human intellectual capabilities within a computer
 - c) the study of mental faculties through the use of mental models implemented on a computer
- b) a set of computer programs that produce output that would be considered to reflect intelligence if it were generated by humans

b) the study of mental faculties through the

use of mental models implemented on a

d)
All of the Mentioned

- (iv) Explain what is tokenization
 - a) Creating a set of vocabularies
- b) Breaking sentences into words

c) Removing stop-words

- d) All of the Mentioned
- (v) Determine which of the following is a disadvantage of decision trees
 - a) Factor Analysis

- b) Decision trees are robust to outliers
- c) Decision trees are prone to be overfit
- d) None of the Mentioned
- (vi) Choose the correct order for preprocessing in Natural Language Processing
 - a) Tokenization -> Stemming -> Lemmatization
- b) Lemmatization -> Tokenization -> Stemming
- c) Stemming -> Tokenization -> Lemmatization
- d) None of the Mentioned
- (vii) Test, the term used for a blockchain splits
 - a) A Merger

b) A Fork

c) A Division

d) None of the Mentioned

(viii	Connect the keyword, UTXO stands for		
(ix)	a) Unspent Transaction Officec) United Transaction OutputPredict which of the following topology is used	b) United Transaction Officed) Unspent Transaction Outputfor ZigBee Smart Energy	
(x)	a) Bus Topologyc) Star TopologyJustify which of the following protocols does not	b) Ring Topology d) Any Topology ot exist at the data link layer	
	a) ZigBee Smart Energyc) WirelessHART	b) LoRaWAN d) Secure MQTT	
(xi)	Write Augmented reality refers to		
	 a) Our increased ability to better understand our situations thanks to easy internet search 	b) How we lose track of time when we engrossed in video games	are
(xii)	c) Digital overlays of information onto a screen that is showing the real worldPropose, which of the following algorithm is us	 d) Increased capacities for the disabled to digital technologies ed in AR 	d thanks
	a) Markov c) PCA	b) Ransac d) Apriori	
(xiii) Recognize, which search method takes less memory			
	a) Depth-First Search	b) Breadth-First search	
	c) Linear Search	d) Optimal search	
(xiv) Match the correct word to fits in the statement, is a state that is better than all its neighboring states but is not better than some other states further away			
	a) Plateau	b) Local Maximum	
(xv)	c) Global Maximum Tell, what is the expansion if PEAS in task environments.	d) All of the Mentioned onment	
	a) Peer, Environment, Actuators, Sense	b) Perceiving, Environment, Actuators,	Sensors
	c) Performance, Environment, Actuators, Sensors	d) None of the Mentioned	
	Grou	-	
	(Short Answer Ty	/pe Questions)	3 x 5=15
2. C	ite the main Features of the Hill Climbing Algorit	hm	(3)
	lustrate why is Natural Language Processing Imp	ortant	(3)
	xplain why to use Unsupervised Learning		(3)
5. E	xpress something about Blockchain Hashing OI	5	(3)
	reate a note on Augmented Reality Relies On Art		(3)
о. E	xplain what is Blockchain O l	3	(3)
E	xplain three different types of probable attacks in		(3)
	Grou	р-С	
	(Long Answer Ty	pe Questions)	5 x 6=30
7. Visualize the Tic-Tac-Toe game tree with an example and diagram			(5)
8. Organize Six Key Characteristics of the Internet of Things			(5)
9. Discuss the Life cycle of Machine learning 10. Construct how Natural Language Processing Work with a diagram			(5) (5)
10. Construct how Natural Language Processing Work with a diagram11. Editorialize some notes on the security threats of IoT in the IndustryOR			(5) (5)
	Justify the use of Python in the IoT Backend	`	(5)
	Analyze the Functional Components of IoT		(5)
