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BTECH (SEM I) THEORY EXAMINATION 2021-22 AI FOR ENGINEERING

Roll No:

Time: 3 Hours

1.

2.

(b)

Total Marks: 100

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

2x10 = 20

Attempt <i>all</i> questions in brief. 2x10			= 20	
Qno	Questions	Marks	CO	
(a)	What do you understand by the term "Intelligence"?	2	1	
(b)	What do you understand by the term data in the field of Artificial Intelligence?	2	2	
(c)	What is Speech Recognition in the field of Artificial Intelligence??	2	3	
(d)	Define "Neuron" in the field of Artificial Intelligence?	2	4	
(e)	What is Object Recognition in the field of Image Processing?	2	5	
(f)	Define the term Pixel?	2	1	
(g)	Explain the term "Algorithm and its basic Properties?	2	2	
(h)	List Any two Real-life applications of Natural Language Processing.	2	3	
(i)	List some Applications of Deep Learning in the field of Artificial Intelligence?	2	4	
(j)	What is Speech Recognition in Artificial Intelligence?	2	5	
	SECTION R			

SECTION B

	SECTION D					
Attempt any <i>three</i> of the following: 10x3		x3 = 30	= 30			
Qno	Questions	Marks	CO			
(a)	Describe the four categories under which AI is classified with examples.	10	1			
(b)	Discuss different Stages in Data Processing.	10	2			
(c)	What is Natural Language Processing? Discuss with some applications.	10	3			
(d)	Explain the Universal Approximation Theorem in detail.	10	4			
(e)	What is need and use of the concept of Image and face recognition Learning	in 10	5			
	the field of Artificial Intelligence?					
	OF OTION O					

SECTION C 3.

3.	Attem	pt any <i>one</i> part of the following: 10x1 =	1 = 10				
	Qno	Questions	Marks	CO			
	(a)	Explain the term Computational Intelligence in brief in the field of Artificial	10	1			
		Intelligence					
	(b)	Write Short note on Classification of Data.	10	2			
4.	Attem	ttempt any <i>one</i> part of the following: $10x1 = 10$					
	Qno	Questions	Marks	CO			
	(a)	Explain the concept of Natural Language Understanding and Natural Language Generation?	10	3			
	(b)	What is Deep learning the field of Artificial Intelligence? Explain its Application and history in brief.	10	4			
5.	Attem	mpt any <i>one</i> part of the following: $10x1 = 10$					
	Qno	Questions	Marks	CO			
	(a)	What's the Difference Between Robotics and Artificial Intelligence?	10	5			
	(b)	Write about the Emerging Technologies the field of AI.	10	1			
6.	Attem	ttempt any <i>one</i> part of the following: 10x1 = 10					
	Qno	Questions	Marks	CO			
	(a)	What is Data Clustering? Explain anyone Clustering method in details.	10	2			
	(b)	Describe the different Components of a Typical Conversational Agent?	10	3			
7.	Attem	pt any <i>one</i> part of the following: 10x1 =	10x1 = 10				
	Qno	Questions	Marks	CO			
	(a)	Explain Generative Adversarial Network in brief.	10	4			

What are Robots in the field of Artificial Intelligence? Explain its characteristics.