

				Sut	oject	t Co	de: 1	KCS	080
Roll No:									

BTECH (SEM VIII) THEORY EXAMINATION 2021-22 MACHINE LEARNING

Time: 3 Hours Total Marks: 70

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

SECTION A

1. Attempt all questions in brief.

2*7 = 14

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Q.no	Questions	Marks	CO
(a)	What is the concept of Decision tree learning?	2	2
(b)	Discuss the basic 5.	2	1
(c)	What are perceptron in Artificial Neural Networks?	2	2
(d)	What do you understand by the Learning problems?	2	1
(e)	What do you mean by the Hypotheses Evaluation?	2	3
(f)	What is the basic concept of Genetic Algorithm?	2	5
(g)	Briefly define about the Computational Learning Theory.	2	4

SECTION B

2. Attempt any *three* of the following:

7*3 = 21

Q.no	Questions	Marks	CO
(a)	Explain in detail about the Crossover and Mutation in	7Geneti	c5
	Algorithm.		
(b)	Discuss about the concept of models evaluation generated from data.	7	2
(c)	What do you understand by Radial basis function network	ks7 unde	r3
	Instance based Learning?		
(d)	Discuss about the concept of Building a smart speaker under Deep	7	4
	Learning in Machine Learning.		
(e)	Discuss in detail about the Issues in Machine Learning	and Da	tal .
	Science.		

SECTION C

3. Attempt any *one* part of the following:

7*1 = 7

Q.no		Questions									
(a)	What is	the	conce	ept of	Rei	nforcement	Learning?	Explain	Markov	5	
	Decision p	Decision process under the Reinforcement Learning.									
(b)	Explain	in	detail	about	the	K-Nearest	Neighbor	Learning	7 under	2	
	instance ba	ased le	arning.								

4. Attempt any *one* part of the following:

7 * 1 = 7

Q.no	Questions	Marks	CO
(a)	Discuss about the Historical progress of Machine Learning. What is	7	1
	the concept of Clustering in Machine Learning?		
(b)	Discuss about the latest trends and fields in machine learning with the	7	3
	help of suitable examples.		



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Roll No:									

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5. Attempt any *one* part of the following:

7*1 = 7

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Q.no	Questions	Marks	CO
(a)	Discuss in detail about the designing of appropriate machine learning	7	4
	algorithms and their application to the real-world problems.		
(b)	What are the Components of Genetic Algorithm? Discuss in brief	7	5
	about the Genetic Algorithm cycle of reproduction.		

6. Attempt any *one* part of the following:

$$7*1 = 7$$

Q.no	Questions	Marks	CO
(a)	Discuss the concept of Regression. Differentiate Linear Reg	gr∉ssion	2
	and Logistic Regression.		
(b)	What is the need of Bayesian Networks? Discuss about the Issues in	7	1
	Machine Learning.		

7. Attempt any *one* part of the following:

7*1 = 7

Q.no	Questions	Marks	CO
(a)	Discuss in detail about the concept of Inductive bias and Information	7	3
	gain in Decision Tree Learning.		
(b)	What do you understand by Deep Learning? Discuss about the concept	7	4
	and application of Convolutional Neural Network.		