Hal	l <u>l T</u> i	eket Number:		
		IV/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION		
July. 2021 Computer Science and Engineering				
Eig Tim	Eight Semester Application Programming Using Pytho Time: Three Hours Maximum: 60 Mar			
Ansv Ansv	ver A ver A	L Questions from PART-A.(12X1 = 12 Mar)NY FOUR questions from PART-B.(4X12=48 Mar)	ks) ks)	
		Part - A	• 、	
1.	An	wer all questions (12X1=12 Mar.	ks)	
	a) b)	Write any two differences between Breek and Continue		
	(U)	Write any four string functions in python		
	d)	Define a Dictionary in python		
	e)	Define Encapsulation		
	f)	Define Data Model		
	g)	List different supervised learning algorithms		
	h)	Write any two differences between classification and regression		
	i)	Define Core Point in DBSCAN?		
	j)	Write any two differences between Supervised and Unsupervised Learning		
	к) 1)	What is Entropy?		
		Part B		
2.	a) b)	What is a String? Write a python program that print the count of the number of letters in a string Write a python program to print the following patterns (i) 55555 (ii)1 4444 23 333 456 22 78910 1	5M 5M	
3	a)	Describe features and advantages of nython	5M	
5.	b)	Write a python program that print the count of number of letters, words, and lines in a file	5M	
4	a)	Define a Tuple? Why Tuples are called Immutable? What makes a Tuple different from a List?	5M	
	b)	What is user defined function in python? How can we pass parameters for user defined function?	5M	
5	a)	Define List? With suitable examples explain built-in functions of List	5M	
5.	a) b)	Write python program(s) to demonstrate the various file I/O operations.       6	5M	
6	a)	Define Machine Learning, Explain different types of Machine Learning?	5M	
0.	a) b)	Explain k-Nearest Neighbor algorithm with suitable example	5M	
7	-)	Define for emised Learning Function Linear Description of a field in the second s		
1.	a) b)	Letine Supervised Learning. Explain Linear Regression algorithm with suitable example	SM	
	0)	The mean regression equation for the following data using Least squares method $X \mid 17 \mid 13 \mid 12 \mid 16 \mid 14 \mid 16 \mid 16 \mid 16 \mid 16 \mid 16 \mid 16$	JIVI	
		Y 94 73 59 93 85 66		

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- 8. a) Define Unsupervised Learning. Discuss challenges in unsupervised Learning
  b) Define Clustering. Explain k-means algorithm with suitable example
  6M
- 9. If Epsilon is 1.5 and min\_point is 3, what are the clusters that DBSCAN would discover with the 12M following 16 examples: (0, 0), (1, 0), (1, 1), (2, 2), (2, 3), (3, 3), (3, 6) (4, 1) (4, 3), (5, 1), (7, 1), (7, 5), (7, 6), (8, 2), (8, 3), (8, 5). Draw the 10 by 10 space and represent the discovered clusters and the samples in each of the clusters

## Scheme of Valuation

## Unit-I

	0111-1
2a) definition -2M	
Program-4M	
b) (i) program-3M	
(ii) program-3M	
<b>3a) features of python-4M</b>	
Advantages-2M	
b) program- count of letters- 2M	
count of words-2M	
count of lines-2M	
	Unit-II
4a) Definition-2M	
Reason- 2M	
Difference-2M	
b) create a table-2M	
Insert data-2M	
Drop Table-2M	
5a) Definition-2M	
Example programs- 4M	
b) Lifecycle-3M	
example program-3M	
	Unit-III
6a) Definition- 2M	
Types-4M	
b) Algorithm- 4M	
example- 2M	
7a) Definition-2M	
Algorithm & example- 4M	
b) reason-2M	
Justification- 4M	
	Unit-IV
8a) Definition-2M	
Challenges-4M	
b) Definition-2M	
Algorithm & example- 4M	
9a) Definition-2M	
Algorithm- 4M	
9b) Definition-2M	
Program-4M	