BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

USN [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]   Course Code [2][1][M][B][A][D][A][3][0][3]

Third Semester MBA Degree Examinations, May/June 2023
PYTHON PROGRAMMING FOR MANAGERS

Duration: 3 hrs   **Max. Marks: 100**

Note: *1. Answer any* **FOUR** *full questions from Question No. 1 to 7.*
     2.Question No. 8 is compulsory
     3. Missing data, if any, may be suitably assumed

Q. No		Question	Marks	(RBTL:CO:PO)
1.	a.	Mention any three applications of Machine Learning	03	(1 :1: 1)
	b.	Explain Baye's Theorem.	07	(2 :1: 1)
	c.	Discuss Naive Baye's Classification	10	(2 :1: 1)
2.	a.	List the Metrics for Performance Evaluation Metrics	03	(1 :2: 2)
	b.	Explain the K-medoids clustering method	07	(2 :2: 2)
	c.	Compare Agglomerative and Divisive Hierarchical clustering methods.	10	(4 :2: 2)
3.	a.	Define Variable and Keywords with an example.	03	(2 :3: 1)
	b.	Explain with the help of python code any three types of Operators.	07	(2 :3: 1)
	c.	Write a program to find a largest number in the given sequence X= [3,12,34,4,9,8]	10	(2 :3: 1)
4.	a.	Explain the importance of Indentation in python.	03	(2 :4: 4)
	b.	Explain If and Else statements with syntax and block diagram.	07	(2 :4: 4)
	c.	Payment of a labour is 40 rupees/hour for 10 hours and 15 rupees for additional hours. Calculate Pay for 15 hours of working in a day. Write a program to implement the same using python program taking *Hours, Rate* as input and *Payment* as output.	10	(2 :4: 4)
5.	a.	Mention the data structures available in python.	03	(1 :5: 5)
	b.	Compare Lists and Tuples using an example	07	(2 :5: 5)
	c.	Write a program to split and count the words in the following lines, *"the clown ran after the car and the car ran into the tent and the tent fell down on the clown and the car".*	10	(3 :5: 5)
6.	a.	Mention Regular Expression modules.	03	(1 :1: 1)
	b.	Explain a) + operator 2) len () and 3) []-indexing in *"banana"*and *"fruit"* strings	07	(2 :1: 1)
	c.	With the help of the python code explain string comparison and searching a string.	10	(2 :1: 1)
7.	a.	Explain File with an example.	03	(2 :2: 2)
	b.	With an example mention the file operations in python	07	(2 :2: 2)
	c.	With the help string modules replace *"o"* with *"X"* in "*Hellp Bob*"	10	(3 :2: 2)

Note: (RBTL - Revised Bloom's Taxonomy Level: CO - Course Outcome: PO – Programme Outcome)

8 **a.** Write a program to extract the host's name using a) find and string slicing and b) double split method in *stephen.marquard@uct.ac.za* **10** (3 :3: 4)

b. Explain with python code a) ndim b) reshape c) dtype d) slicing operations using numpy. **10** (3 :3: 5)

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