Question Paper

Exam Date & Time: 28-Dec-2022 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

INTERNATIONAL CENTRE FOR APPLIED SCIENCES END SEMESTER THEORY EXAMINATION - DECEMBER 2022 III SEMESTER B.Sc. (Applied Sciences) in Engg.

INTRODUCTION TO DATA ANALYTICS WITH PYTHON [ICS 235 - S2]

Marks: 50 Duration: 180 mins.

Answer all the questions.

Missing data, if any, may be suitably assumed

A)	How is data visualization used for business decision-making? [any 5 well-explained points]
B)	Define a python function to check whether a number (user-defined) is prime or nonprime. The function raises an exception if the argument is not a number. Call the function by call by user-specified value and print the result, and accept the exception in case the user inputs non-integer data.
C)	Attempt the following: i) Which one is not a reserved word: a) pass b) in c) export d) and ii) Return type of input() iii) print(13//5) iv) Run time error is called as v) print(type(True))
A)	Write python code to create the following DataFrame. Insert a new column 'Mean' and assign mean column values to 'Mean'. one two
	a 1.0 4.0
	b 2.0 3.0
	c 3.0 2.0
	d 4.0 1.0
B)	Write Python program: i) to replace whitespaces with an underscore and vice versa. ii) to extract year, month and date from an url. iii) to separate and print the numbers of a given string.

v) to find all words which are at least 4 characters long in a string.