

	National Forensic Sciences University, Goa Campus  <b>TA-1 Examination</b>	
<b>Q.1</b>	<b>Multiple Choice Questions</b>	<b>10 marks</b>
i.	What is the file extension for Python scripts?  a. A) .py b. B) .pyt c. C) .pt d. D) .script	1 mark
ii.	How do you read a CSV file data.csv into a Pandas DataFrame df?  a. A) pd.read_csv("data.csv", df) b. B) pd.read_csv("data.csv") c. C) pd.load_csv("data.csv", df) d. D) pd.load_file("data.csv")	1 mark
iii.	How many times will for i in range(5): loop?  a. A) 4 b. B) 5 c. C) 6 d. D) Infinite loop	1 mark
iv.	How do you access the first element of a list my_list in Python?  a. A) my_list[0] b. B) my_list.first() c. C) my_list[1] d. D) first(my_list)	1 mark
v.	Which data structure uses key-value pairs in Python?  a. A) List, B) Tuple b. C) Dictionary, D) Set	1 mark

vi.	<p>How do you define a function square that returns the square of a number in Python?</p> <p>a. A) function square(x):  b. B) def square(x):  c. C) func square(x):  d. D) define square(x</p>	1 mark
vii.	<p>What is Anaconda primarily used for in Python development?</p> <p>a. A) Web development  b. B) Data science and machine learning  c. C) Mobile app development  d. D) Game development</p>	1 mark
viii.	<p>Which library is commonly used for numerical computations in Python?</p> <p>a. A) Pandas  b. B) Matplotlib  c. C) NumPy  d. D) SciPy</p>	1 mark
ix.	<p>Which of the following is used to find the relationship between two variables in statistics?</p> <p>e. A) Mean  f. B) Median  g. C) Correlation  h. D) Standard deviation</p>	1 mark
x.	<p>What is the output of <math>2 ** 3 ** 2</math>?</p> <p>A) 64, B) 512, C) 12, D) 18</p>	1 mark
<b>Q.2</b>	<b>Answer any 3 questions (5 marks each)</b>	<b>15 marks</b>
i.	Explain the purpose of matplotlib library.	
ii.	Discuss a case study where machine learning can be used for automation.	
iii.	Describe the box plot in data visualization, with an example.	
iv.	<p>Which kind of figure would be suitable to compare the following ratings for data about 'people got interview through' (in percentages) of 5 companies:-  Referral, Walk-in, Company Website, Campus Placement, Recruitment Consultant</p>	

