

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What are different stages in a Data Science Project?
Explain in detail. (CO4)

Q.24 What is inheritance and its types (CO1)

Q.25 How do you create data frame? (CO3)

No. of Printed Pages : 4

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3rd Sem / Artificial Intelligence & Machine Learning

Subject : Data Science Using Python

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Who developed Python Programming Language?
(CO1)

- a) Wick van Rossum
- b) Rasmus Lerdorf
- c) Guido van Rossum
- d) Niene Stom

Q.2 A panel is a _____ container of data (CO3)

- a) 1D
- b) 2D
- c) 3D
- d) Infinite

Q.3 Is Python case sensitive when dealing with
identifiers? (CO1)

- a) no
- b) yes
- c) machine dependent
- d) none of the mentioned

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- Q.4 NumPY stands for? (CO4)
 a) Numbering Python b) Number In Python
 c) Numerical Python d) None of the above
- Q.5 What arithmetic operators cannot be used with strings in Python? (CO1)
 a) * b) -
 c) + d) All of the mentioned
- Q.6 Which of the following library is similar to Pandas? (CO4)
 a) NumPy
 b) Rpy
 c) OutPy
 d) None of the mentioned

SECTION-B

- Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)
- Q.7 Who developed Python Programming Language? (CO1)
- Q.8 Can you modify the value in a dictionary? (CO2)
- Q.9 What will the following code do: a = b=22 (CO1)
- Q.10 Pandas key data structure is called _____ (CO3)

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- Q.11 Which character is used to give multi-line comments in Python? (CO1)
- Q.12 Name any mutable data type in python (CO2)

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)
- Q.13 Differentiate between file modes r+ and w+ with respect to python. (CO1)
- Q.14 What is the difference between Interactive mode and Script Mode in Python? (CO2)
- Q.15 What are the advantages of Python? (CO1)
- Q.16 What are operators? Give examples of some unary and binary operators. (CO1)
- Q.17 Why is NumPy Arrays faster than Python Lists? (CO2)
- Q.18 What do you mean by data security and also write data security issues? (CO4)
- Q.19 Explain Dictionary. How it is created? (CO1)
- Q.20 Write the properties of first class function. (CO2)
- Q.21 What is constructor and its types (CO2)
- Q.22 Explain break and continue statement (CO2)

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