

# Big Data Analytics [First Half] - MCQ Test

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Instructions

- This test contains 10 multiple-choice questions.
- Each question has only one correct answer.
- Use a pencil or a pen to circle your chosen answer.
- Do not use correction fluid or tape; if you need to change an answer, please cross it out and circle another answer clearly.

1. What is Big Data Analytics primarily used for in businesses?
  - a. Enhancing social media presence
  - b. Predicting future trends
  - c. Simplifying operations processes
  - d. Reducing the need for IT infrastructure
2. Which Linux command is used to change the current directory?
  - a. ls
  - b. cd
  - c. mkdir
  - d. pwd
3. In Python, what will 'print(type(3.5))' output?
  - a. int
  - b. float
  - c. string
  - d. list
4. Which command is used to list all files and directories in Linux?
  - a. ls -a
  - b. ls -l
  - c. dir
  - d. list
5. What is the correct syntax to output the type of a variable or object in Python?
  - a. typeOf(var)
  - b. typeof(var)
  - c. type(var)
  - d. getType(var)
6. How do you start defining a function in Python?
  - a. function myFunction():
  - b. def myFunction():
  - c. function:myFunction()
  - d. def: myFunction()
7. What does the 'pwd' command do in a Linux shell?
  - a. Changes the current directory
  - b. Lists the content of the current directory
  - c. Prints the working directory
  - d. Creates a new directory
8. Which Python data structure is used to store multiple items in a single variable?
  - a. List
  - b. Dictionary
  - c. Tuple
  - d. Set
9. What does the 'chmod +x filename' command do in Linux?
  - a. Changes the owner of the file
  - b. Deletes the file

- c. Makes the file executable
  - d. Copies the file to another location
10. In Python, how would you print "Hello World" to the console?
- a. echo "Hello World"
  - b. print("Hello World")
  - c. console.log("Hello World")
  - d. printf("Hello World")
11. What is the result of the following Python expression: `4 == 5`?
- a. True
  - b. False
  - c. Error
  - d. None
12. Which of the following Python data types is immutable?
- a. List
  - b. Dictionary
  - c. Tuple
  - d. Set
13. Which Python keyword is used to create a class?
- a. class
  - b. struct
  - c. object
  - d. define
14. In descriptive statistics what does the mode represent?
- a. The middle value
  - b. The average
  - c. The most frequent value
  - d. The difference of highest and lowest
15. What is the use of the 'import' statement in Python?
- a. To include the contents of one script within another
  - b. To add comments to the code
  - c. To declare a variable
  - d. None of the above
16. Which command is used to create a new directory in Linux?
- a. touch
  - b. mkdir
  - c. mkfile
  - d. newdir
17. What does the 'numpy.array' function do?
- a. Initializes a new Linux command
  - b. Creates a new Python list
  - c. Creates a new array instance in numpy
  - d. Prints an array to the console
18. In Linux, what is the purpose of the 'grep' command?
- a. To search text using patterns
  - b. To replace text within files
  - c. To compile programs
  - d. To list directory contents
19. How is a conditional statement started in Python?
- a. if (condition)
  - b. if condition:
  - c. if condition then
  - d. if [condition]
20. Which Python package is used for data analysis and manipulation?
- a. TensorFlow
  - b. Numpy
  - c. Pandas
  - d. Matplotlib