

MCA II Semester (NEP) Degree Examination, Nov-2023

MATER OF COMPUTER APPLICATIONS

Paper: Python Programming

Hours: 01

Max Marks: 30

Answer all the questions. Each question carries equal marks.

- 1. What is Python primarily known for?**
 - a) High-performance gaming
 - b) Web development
 - c) Scientific computing
 - d) Video editing

- 2. Which of the following is not a valid Python variable name?**
 - a) my_variable
 - b) 123variable
 - c) _private_variable
 - d) MY_VARIABLE

- 3. What is the purpose of the "print" function in Python?**
 - a) To add comments to your code
 - b) To display text on the screen
 - c) To perform mathematical calculations
 - d) To create a loop

- 4. Which of the following statements is true about Python's dynamic typing?**
 - a) You must declare the data type of a variable before using it.
 - b) Variables can change their data type during runtime.
 - c) Python only supports a single data type for all variables.
 - d) Dynamic typing is not a feature of Python.

- 5. What does the "import" statement in Python allow you to do?**
 - a) Create a new module
 - b) Define a new function
 - c) Import external modules and their functions
 - d) Execute a specific code block

- 6. What is the main benefit of using functions in Python?**
 - a) They make the code shorter and more concise.
 - b) They improve code readability and organization.
 - c) They enable multi-threading in Python programs.
 - d) They automatically handle errors and exceptions.

7. In Python, what does the "pass" statement do?

- a) It executes the code block it is a part of.
- b) It raises an exception.
- c) It does nothing and serves as a placeholder.
- d) It exits the current function.

8. Which operator is used for exponentiation in Python?

- a) a)
- b) ^
- c) //
- d) %

9. What is the primary purpose of a "docstring" in Python?

- a) To declare a variable
- b) To write comments for the developer's reference
- c) To store user input
- d) To provide documentation for a function or module

10. What is the purpose of the "input" function in Python?

- a) To display text on the screen
- b) To wait for user input
- c) To generate random numbers
- d) To define a new function

11. What is the purpose of the "if" statement in Python?

- a) To create loops
- b) To define a function
- c) To perform conditional execution
- d) To print text to the console

12. In Python, what is the symbol for "not equal to" in a conditional statement?

- a) =
- b) !=
- c) ==
- d) <>

13. When would you use the "else" clause in a conditional statement?

- a) When you want to execute a block of code if the condition is true.
- b) When you want to execute a block of code regardless of the condition.
- c) When you want to execute a block of code only if the "if" condition is false.
- d) When you want to create a loop.

14. What does the "elif" keyword stand for in Python?

- a) Else if
- b) Else loop
- c) Exclusive if
- d) Exception handling

- 15. In Python, which logical operator is used for "logical and"?**
- a) &&
 - b) and
 - c) &
 - d) |
- 16. What is the purpose of the "or" operator in a conditional statement in Python?**
- a) It combines two conditions, and the statement is true if either condition is true.
 - b) It checks if both conditions are true simultaneously.
 - c) It is used to create a loop.
 - d) It is used for exclusive or (XOR) operations.
- 17. Which data structure in Python is ordered and mutable?**
- a) List
 - b) Tuple
 - c) Dictionary
 - d) Set
- 18. How do you access an element in a list with the index 2?**
- a) list[2]
 - b) list(2)
 - c) list{2}
 - d) list.2
- 19. What is the key difference between a list and a tuple in Python?**
- a) Lists are immutable, and tuples are mutable.
 - b) Lists are ordered, and tuples are unordered.
 - c) Lists are indexed from 0, and tuples from 1.
 - d) Lists can contain elements of different data types, but tuples cannot.
- 20. In a dictionary, what does a key-value pair represent?**
- a) An item in a list
 - b) A function definition
 - c) An association between a key and a value
 - d) A loop condition
- 21. How do you add a new key-value pair to an existing dictionary?**
- a) Using the 'append' method
 - b) Using the 'add' keyword
 - c) Using the 'insert' function
 - d) By assigning a value to a new key
- 22. Which data structure in Python is best suited for storing a collection of elements with no duplicates?**
- a) List
 - b) Tuple
 - c) Dictionary
 - d) Set

- 23. What is the key difference between a set and a list in Python?**
- a) Sets can contain duplicate elements, but lists cannot.
 - b) Lists are unordered, but sets are ordered.
 - c) Sets can only store integers, while lists can store any data type.
 - d) Lists are immutable, but sets are mutable.
- 24. Which data structure is used to implement a stack in Python?**
- a) List
 - b) Tuple
 - c) Dictionary
 - d) Queue
- 25. How do you check if a key exists in a dictionary?**
- a) Using the 'exist' method
 - b) By trying to access it and handling the exception
 - c) Using the 'contains' keyword
 - d) Using the 'in' keyword
- 26. Who developed Python Programming Language?**
- a) Wick van Rossum
 - b) Rasmus Lerdorf
 - c) Guido van Rossum
 - d) Niene Stom
- 27. Which type of Programming does Python support?**
- a) Object-oriented programming
 - b) Structured programming
 - c) Functional programming
 - d) All of the mentioned
- 28. Which of the following is the correct extension of the Python file?**
- a) .python
 - b) .pl
 - c) .py
 - d) .p
- 29. What do we use to define a block of code in Python language?**
- a) Key
 - b) Brackets
 - c) Indentation
 - d) None of these
- 30. Which character is used in Python to make a single line comment?**
- a) /
 - b) //
 - c) #
 - d) !

- o 0 o -