Wada Nirmiti Education Society's

GURUKUL GLOBAL SCHOOL

WORKSHEET

SUB: COMPUTER **LESSON: 5. More on Python** **STD: VII**

NAME: _____ ROLL No: _____ DATE:

Q.1 FILL IN THE BLANKS.

[Operands, Unary, Binary, Operator, Associativity, Control, Sequential, Conditional]

1. An _____ needs one or more operands to perform any operations.
2. _____ operators are symbols that operate on only one single operand.
3. Operators that act upon two operands to execute an expression are called _____ operators.
4. Relational operators are primarily utilized to verify relationship conditions between two _____ .
5. In a compound expression, the execution direction of identical priority operators is governed by _____ .
6. System statements that alter or direct the flow of execution in a program are called _____ statements.
7. In a _____ construct, statements execute linearly from top to bottom without branching.
8. Deciding whether to execute a block of instructions based on a True or False outcome utilizes _____ statements.

Q.2 MATCH THE FOLLOWING.

1. Modulus (%)	A. Binary string operation used to join or combine two string types together
2. Floor Division (//)	B. Evaluates to True if either of the target conditions is met
3. Exponentiation (**)	C. Arithmetic binary symbol used to compute power factors
4. Concatenation (+)	D. Sequential priority sequence that guides operator selection routines
5. Replication (*)	E. Yields only the whole number or integer component of a division quotient
6. Logical 'or'	F. Divides two numbers and outputs exclusively the remainder integer value
7. Precedence	G. Duplicates or prints a target text string a specified number of times
8. Indentation	H. Compulsory white space padding used to establish code blocks in an 'if' query

Answer:

1 - [____] 2 - [____] 3 - [____] 4 - [____] 5 - [____] 6 - [____] 7 - [____] 8 - [____]

Q.3 SELECT THE CORRECT OPTION

1. Which of the following symbols maps to the mathematical Floor Division operator in Python?

a) / b) % c) //

2. Which structural statement executes a code block when a specific single condition maps to True, but outputs nothing if it evaluates to False?

a) if statement b) if...else statement c) if...elif...else statement

3. Which operator family evaluates to one of two Boolean states: either True or False?

a) Assignment b) Logical/Boolean c) Unary

4. What is the correct order of precedence for arithmetic operators from highest to lowest?

a) +, -, *, /, ** b) **, (*, /, //, %), +, - c) Parentheses, +, -, **

5. Which assignment operator evaluates the operation on its right side first before passing the value to the variable on the left?

a) == b) != c) =

6. When evaluating expressions with identical precedence ranks like * and /, how does Python break the tie?

a) Right to Left b) Left to Right c) Random assignment

7. Which block statement provides a compact layout to evaluate multiple conditional expressions sequentially?

a) if statement b) if...else c) if...elif...else

8. What error is thrown by the Python interpreter if a developer leaves out tab spacing blocks inside an active 'if' branch?

a) Syntax Error b) Indentation Error c) Value Error

Q.4 ANSWER IN ONE SENTENCE.

1. What are computational operands within a mathematical expression?

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_____

_____

2. Identify the operational purpose handled by the modulo (%) mathematical operator.

_____

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_____

3. Define what string concatenation performs during execution loops.

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4. What is the fundamental difference between relational and logical operators?

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5. Define what operator precedence dictates inside an algorithmic code branch.

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6. What rule guides execution pathways when operators hold matching precedence values?

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7. State the core operational mechanism of conditional or decision-making statements.

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8. What syntax character is compulsory at the close of an 'if' or 'elif' condition line?

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Q.5 ANSWER THE FOLLOWING QUESTIONS.

1. Construct a concise tabular layout that summarizes the functional purpose of Unary operators versus Binary operators.

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2. Draft a small, complete Python script designed to compute and return the complete area and circumference dimensions of a circle.

3. Compare string concatenation with string replication, detailing the distinct symbol markers used for each.

4. Detail the full logic truth table parameters for the three foundational Boolean operator states: 'and', 'or', and 'not'.

5. Order the structural hierarchy grid for Python operator precedence types from highest priority levels down to the baseline.

6. Diagram an official flowchart outlining the path selection choices required to evaluate if an individual's age matches driving license laws.

7. Contrast the execution path of a single-alternative 'if' statement block with a double-alternative 'if...else' control structure.

8. Write a multi-conditional Python program utilizing 'if...elif...else' syntax to map numbers 1 through 7 onto matching day strings.