INTERNATIONAL INDIAN SCHOOL BURAIDAH

ASSIGNMENT SHEET (2026-2027)

Class: XI A/B

Subject - Code: COMPUTER SCIENCE-083

(L5,L6,L7)

I. SECTION A

1. The smallest individual unit in a program is called_____
2. Python is a _____level Language.
3. The 'None' literal is used to indicate the absence of a value.[True/False]
4. What is the value of the expression 6**2?
5. What is the average value of the code that is executed below?

   grade1 = 80

   grade2 = 90

   average = (grade1 + grade2) / 2

   a) 85 b) 85.1 c) 95 d) 95.1
6. Find the invalid identifier from the following

   a) def b) For c)_bonus d)First_Name
7. Find the invalid identifier from the following

   a) Subtotal b) print c) temp_calc d) Name2
8. Find the valid identifier from the following

   a) My-Name b) True c) 2ndName d) S_name
9. Which of the following is valid logical operator

   (i) && (ii) > (iii) and (iv) ==
10. Identify the invalid logical operator in Python from the following.

    a) and b) or c) not d) Boolean
11. Which of the following is not an assignment operator?

    i.) **= ii.) /= iii.) = = iv.) %=
12. Write the type of tokens from the following.

    i.) _Var ii.) in
13. Write the type of tokens from the following:

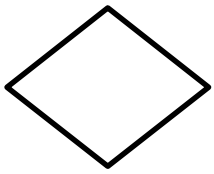
    a) input b) roll_no
14. Identify the valid arithmetic operator in Python from the following.

    a) ? b) < c) ** d) And
15. Which one of the following is the default extension of a Python file?

    a) .exe b) .p++ c) .py d) .p
16. Which of the following symbol is used in Python for single line comment?

    a) / b) /* c) // d) #
17. In computer science, algorithms refer to a pictorial representation of a flowchart.

    a) True b) False
18. Python code run on a variety of platforms it means python is a _____ language.
19. The following box denotes?



a) Decision b) Initiation c) Initialization d) I/O

20. Choose the correct syntax for printing values in the same line.
    (a) print(a,b)
    (b) print (a, end="", b)
    (c) print (a,end="$",b)
    (d) print(a)print(b)
    (ASSERTION AND REASONING based questions)
    a) Both A and R are true and R is correct explanation of A
    b) Both A and R are true and R is not correct explanation of A
    c) A is True but R is false.
    d) A is false but R is True

21. Assertion (A) A flow chart is a type of diagram that represents the algorithm graphically using the boxes.
    Reason (R) A sequential algorithm is one where all steps are executed one after the other.
    Ans: a

22.
Assertion (A):A flowchart is a type of diagram that represents a workflow or process
Reason (R) :A flowchart can also be defined as a diagrammatic representation of an algorithm
Ans: a

23.
    Assertion (A):An algorithm is a procedure used for solving a problem or performing a computation.
    Reason (R) :Algorithm may have infinite number of instructions.
    Ans: c

24.
    Assertion (A):Pseudocode requires strict programming language syntax
    Reason (R) :Pseudocode summarizes a program's flow
    Ans. d

25. Assertion (A): The if Then flowchart statement is a two-way system that executes two blocks of statements
    Reason (R) :if the condition inside the if block is true, the program executes all the statements within that if block.
    Ans: a

II. SECTION B

1. Write the full form of IDLE.
2. Raj was working on an application where he wanted to divide the two numbers (A and B), he has written the expression as C = A/B, on execution he entered 30 and 7 and expected answer was 4 i.e. only integer part not in decimal, but the answer was 4.285 approx., Help Raj to correct his expression and achieve the desired output.
3. Can you guess the output?

```
C = -11%4
print(C)
```

4. Write 2 advantages and disadvantages of Python programming language. Explain them.

5. Identify the valid and Invalid identifier names:
   Emp-Code, _bonus, While, SrNo. , for, #count, Emp1, 123Go, Bond007
6. Identify the type of literals for each:
   (i) 123
   (ii) "Hello"
   (iii) "Bye\nSee You"
   (iv) x= "Apple\
   box"
   (v) 345.55
   (vii) 0x12
7. What is the size of each string?
   (i) "Python"
   (ii) "Learning@\nCS"
   (iii) "\table"
8. Result of the following expressions:
   (i) 2 * 7 =
   (ii) 2 ** 7 =
   (iii) 20 % 10=
9. 012 is it a valid literal? Explain.

III. SECTION C

1. What are the three algorithm components? Explain each one of them.
2. What is the difference between a flowchart and pseudocode?
3. Difference between testing and debugging.
4. What do you mean by docstrings?
5. What are the 2 types of Strings in Python? Explain with examples.
6. What are comments in Python? Write the Python program to show the use of comments.
7. Is Python an interpreted **language**?? Justify your answer.
8. Mention any 3 Identifier Forming Rule.
9. Algorithm and flowchart to find square of a number.
10. What is the difference between a keyword and an identifier?
11. How many ways are there in Python to represent an integer literal? Explain
12. Write an algorithm and draw a flowchart to determine if a student passed the exam or not. (Hint: There are four subject papers and passing average id 50 0r more)
13. Explain any 3 advantages and disadvantages of Python.
14. Draw a flowchart to check if a number is odd or even number.

15. Difference between the following

    a. = = and =

    b. * and **

    c. / and //

    d. is and = =

    e. is and in

16. Explain about dynamic typing with an example.

17. What is multiple assignments?

IV. SECTION D-Programming

1. Write a program to enter 2 number and find the sum and product.
2. Write a program to get the side of a square from the user and print its area.
3. Predict the output of the following.

a) A=10

   B=10

   print (A == B)

   print(A>= B)

   print (A is B)

4. Write a program to enter two integers and perform all arithmetic operations on them.

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