

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: B.TECH.
BRANCH: ECE,CE,EEE,ME**

**SEMESTER: V
SESSION: MO/2022**

SUBJECT: IT271 INTRODUCTION TO PYTHON

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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	CO	BL
Q1 (a) What is formal definition of problem? Explain with algorithms using suitable examples	[2]	Remember
Q1 (b) What is Python? Explain about the Python works on different platforms	[3]	Understand
Q2 (a) Explain about the string operation?	[2]	Understand
Q2 (b) Find the valid and invalid Variables <code>_MY_Var="Mohan"</code> , <code>4myvar="Shyam"</code> , <code>my-var="John"</code>	[3]	Evaluate
Q3 (a) What is Decision making statement? Explain with decision making statement with suitable examples?	[2]	Remember
Q3 (b) What will the following code print?	[3]	Evaluate
<pre>counter = 1 sum = 0 while counter <= 6: sum = sum + counter counter = counter + 2 print(sum)</pre>		
Q4 (a) What is iterative statement? Explain with suitable Example	[2]	Remember
Q4 (b) Explain about the tuples and directories operation with examples?	[3]	Understand
Q5 (a) What is function and call? Explain with suitable example	[2]	Remember
Q5 (b) Find the output with reason?	[3]	Evaluate
<pre># define function with *args def add(*args): result = 0 # args becomes a tuple of all the arguments passed into this function. for items in args: result += items return result if __name__ == '__main__': # call function with 4 argument integers result1 = add(4,5,3,2) print("1 Result: ", result1) # call function with 6 argument integers result2 = add(4,6,2,7,8,9)</pre>		