SAPTHAGIRI NPS UNIVERSITY

UNMATCHED EXCELLENCE, UNLIMITED POTENTIAL

QUESTION BANK

Course Code: 24BTPHY204/24BTELY205 **Semester: II**

Course: Programming in Python

Module 1: Introduction to Python

1. **List various types of operators in Python and write any 4 types of operators with an example.**
2. **Outline with an example the assignment and bitwise operators supported in Python.**
3. **Write a Python program to print prime number series up to N**
4. **Outline break and continue statement with the help of for loop with an example.**
5. **Outline the syntax of the following statements.**
   i) for loop
   ii) while loop
   iii) if - else
   iv) if-elif-else
6. **Illustrate expressions in python with order of evaluation with example.**
7. **Develop a program to find the largest among three numbers.**
8. **Implement Python program to find sum of natural numbers.**
9. **Illustrate input and output statements with an example.**
10. **Define data type? List out the types of data types with example.**
11. **Define Variable and list the rules for choosing names of Variable.**
12. **Write a Python program to accept two numbers, multiply them and print the result.**
13. **Write a Python program to accept two numbers find the greatest and print the result.**
14. **Write a Python program to find the sum of first 'n' even numbers and print the result**
15. **Write a python program to calculate the area of circle, rectangular and triangle. Print the results.**
16. **Determine the out of the following code**

i).
```
sum = 0
for i in range(12,2,-2):
    sum+=i
print sum
```

ii)
```
n=50
i=5
s=0
while i<n:
    s+=i
    i+=10
print "i=",i
print "sum=",s
```

iii)
```
int1 = 10
int2 = 6
 if int != int2:
     int2 = ++int2

print(int1 - int2)
```

17. What will be the output of the following?
    i. Alice * 5
    ii. 'Alice' + 'Bob'
18. Choose the Valid variables:
    Balance
    _spam
    Account*balance
    55eggs
19. Illustrate how the following expressions are evaluated using precedence of arithmetic operators.
    i) (5-1) * ((7+1) / (3-1))
    ii) 23//7
    iii). (2+3)*6
21. Describe how the expression is evaluated by python

    (8-2)*((10+5)/(3-1))

22 Explain the following statements with examples

    i. Expressions
    ii. Statement
    iii. multiline statement

23. Write a Python program that performs all arithmetic operations on user inputs
24. Describe three types of errors in Python with examples
25. Write a Python program to check whether a number is even or odd
26. Differentiate between relational and logical operators