Question Bank Python Programming (BTETPE405E)

- 1. State and explain any six features of python.
- 2. State any six applications of python.
- 3. State any six reasons, why you must consider writing software applications in Python.
- 4. Explain input command in python with suitable example.
- 5. Explain print command in python with suitable example.
- 6. State which of the following python statements are valid and invalid.
 - a. print("ksk", + "123")
 - b. print("ksk" '+' "123")
 - c. print("ksk", '+', "123")
 - d. print('ABC is a "technological" University')
 - e. print(2 + '3')
 - f. print('2' * 3)
- 7. What will be the output of following print statements?
 - a. print('abc' * 2)
 - b. print(3+4j + 2+1j)
 - c. print(3*2 // 4)
- 8. State which of the following python statements are valid and invalid.
 - a. x = input("enter a number")
 - b. x = input()
 - c. x = input("")
 - d. x = input(" ' ")
 - e. x = input(2)
 - f. x=input("2" + "3")
- 9. What will be the value of variables x, y & z after execution of following python program. Assume that user enters a value 5.

temp=input("enter a number")

x=temp*5

y=int(temp)*5

z=bool(temp*0)

10. What will be the output of following program? Assume that user will enter only integer value.

temp=input("enter a number")
x=temp*0
y=int(temp)*0
z=bool(temp*0)
print(x)
print(y)
print(z)

- 11. What are the types of following variables?
 - a. a = 55
 - b. b = '3 + 4j'
 - c. c = "1DBATU"
 - d. d = 5 + 2j
 - e. e = a
 - f. f = b+c
- 12. Rewrite following code with proper indentation to get the output as

Expected output	Code without indentation
cube of 1 is:	abc = [1,2,3,4,5]
1	for x in abc:
square of 2 is:	if x%2 == 0:
4	print("square of ", x , "is:")
cube of 3 is:	print(x**2)
27	else:
square of 4 is:	print("cube of ", x , "is:")
16	print(x**3)
cube of 5 is:	
125	

- 13. What will be the output of following print statements?
 - a. print(123,"\nabc")
 - b. print("****","\\n**","\\n**")
 - c. print("'"'""'")
- 14. Explain any six arithmetic operators of python with suitable examples of each.
- 15. Explain any six assignment operators of python with suitable examples of each.
- 16. Explain all comparison operators of python with suitable examples of each.
- 17. Explain "and, or, not" operators of python with suitable examples of each.

- 18. Explain following operators of python with suitable examples of each.
 - a. is,
 - b. in,
 - c. not in
- 19. Explain all bitwise operators of python with suitable examples of each.
- 20. Explain while loop with suitable example?
- 21. Explain for loop with suitable example?
- 22. Explain break, continue and pass statement with suitable example of each.
- 23. Differentiate between List, Tuple & Set with suitable examples of each.
- 24. Explain any three collection data types of Python with suitable examples of each.
- 25. Explain append() and copy() methods of list with suitable examples of each.
- 26. Explain count() and index() methods of list with suitable examples of each.
- 27. Explain insert() and remove() methods of list with suitable examples of each.
- 28. Explain reverse() and remove() methods of list with suitable examples of each.
- 29. Explain clear() and extend() methods of list with suitable examples of each.
- 30. Explain pop() and sort() methods of list with suitable examples of each.
- 31. What will be the output of following python statements?
 - a. print(23 // 5)
 - b. print(2 << 2)
 - c. print(2 >> 0)
 - d. print(2 ^ 2)
 - e. print(2 != 2)
 - f. print(2 < 0)