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HOLIDAY HOMEWORK
Class XI- IP

1. Which of the following statement is incorrect?
(a) 1 Byte = 8 bits
(b) 1 KB = 1024 bytes
(c) 1 MB = 1024 KB
(d) 1 GB = 1024 KB

2. In ASCII decimal number 65 is used to represent which alphabet?
(a) H
(b) J
(c) A
(d) Z

3. If the value of a = 20 and b = 20, then a+=b will assign _____ to a
(a) 40
(b) 30
(c) 20
(d) 10

4. Which of the following is/are the valid variable name(s):
(i) global
(ii) 99flag
(iii) sum
(iv) an\$wer

(a) (i) ,(ii), (iv)
(b) (i), (ii)
(c) only (i)
(d) only (iii)

5. What data type is the object below?
L = [1, 23, 'hello', 1]
(a) tuple
(b) list
(c) dictionary
(d) array

6. What will be the output of the following:
print(len(str(17//4)))
(a) 1
(b) 3
(c) 4.0
(d) 4

7. A loop that never ends is called a:
(a) Continue loop
(b) Circle loop
(c) Infinite loop
(d) None of these

8. We can go back to the start of the loop by using _____
(a) continue
(b) break
(c) start
(d) loop

9. A character enclosed in quotes are considered as strings in Python. Which among the following is not a valid quotes:
- (a) single
 - (b) triple single
 - (c) double
 - (d) double double
10. Which of the following types not qualify to be the keys of a dictionary?
- (a) Strings
 - (b) list
 - (c) integer
 - (d) float
11. Give Trouble shooting techniques:
- (a) What you will do when you find that a program is not working properly or it's running slow.
 - (b) When you find that your computer is not switching on.
12. Number system conversion:
- (a) $(50)_{10} = (?)_2$
 - (b) $(1110101)_2 = (?)_{10}$
13. What is UNICODE? What is its significance?
14. What are relational operators? Explain with the help of examples.
15. How are comments written in a python program?
16. Distinguish between the following:
- (a) Interactive mode and Script mode
 - (b) Interpreter and Compiler
17. What does "immutable" mean? Which data type in python are immutable?
18. Find the output from the following code:
- ```
L=[100,200,300,400,500]
L1=L[2:4]
print (L1)
L2=L[1:5]
print (L2)
```
19. Which string method is used to implement the following:
- a) To count the number of characters in the string.
  - b) To change the first character of the string in capital letter.
  - c) To check whether given character is letter or a number.
  - d) To change lower case to upper case letter.

20. Write a function to find whether the dealer is in profit or loss for selling 100 notebooks.
21. Write a program using 'for loop' that calculates exponentials. Your program should ask for base and exponent values from user.  
**Note:** Do not use \*\* operator and math module.
22. Find the output of the following:
- (a) 

```
A = 10
A = A + 1
if A == 10 :
 print ("Value is Ten")
else :
 print ("Value is not Ten")
```
- (b) 

```
N = 50 ; I = 5; S = 0
while I < N :
 S+ = I
 I+ = 10
print (" I = ", I)
print ("SUM = ", S)
```
23. (a) Rewrite the following for loop into while loop:  

```
for a in range (25,500,25):
 print (a)
```
- (b) Rewrite the following while loop into for loop:  

```
i=88
while(i >= 8):
 print (i)
 i - = 8
```
24. Write a python script for the following:
- (a) To find amount for given cost (get from the user), qty (get from the user) and discount (if cost is greater than 1000, then give 15 % discount)
- (b) To calculate the cost of ploughing a field (area) and cost of fencing the same field. (perimeter)
- (c) To calculate the personal loan EMI. Use the following formula:  
$$EMI = \frac{P \times R \times (1 + R)^N}{(1 + R)^N - 1}$$
25. Input a string "Green Revolution".
- (a) Write a script to print the string in reverse order.
- (b) Write a script to check if the string is a palindrome or not.
- (c) Write a script to remove the space.
26. Consider the list given below and write the output:  

```
list = [10, 20, 30, 40, 50, 60]
```

- (a) `print ( list [::2] )`
- (b) `print ( list [::-1] )`
- (c) `print ( list [-4:] )`
- (d) `print ( list [:3] )`

27. Create a list that contains the names of 5 students of your class. (Do not ask user to input the values)

- (a) Ask the user to input one name and append it to the list
- (b) Delete a name from the list entered by the user
- (c) Sort the names in the list and print the list
- (d) Ask the user to input one name and insert at the front of the list

28. Find the errors and give reason:

- (a) `List1 = [ 3, 4, 5 ]`  
`List2 = List1 * 3`  
`print (List1 * 3.0)`  
`Print (List2)`

- (b) `LA = [3,3,8,1,3,0,'1','0','2','e','w','e','r']`  
`print ( LA [ : : -1 ] )`  
`print ( LA [ -1 : -2 : -3 ] )`  
`print ( LA [ -1 : -2 : -3 : -4 ] )`  
`print ( LA [ -1 : -2 ; 3 ] )`

29. Write two differences between Dictionary and List.

30. Write the output for the following codes.

```
A={10:1000,20:2000,30:3000,40:4000,50:5000}
print (A.items())
print (A.keys())
```