

11th Half-yearly Examination

Information practices

Time 3 Hrs.

MM:70

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|---------------------------------------------------------------------------------|---|
| A. Q.1. What are the advantages of Python Programming Language? | 2 |
| 2. What are the limitation of Python Programming Language? | 2 |
| 3. In how many different ways we can work of Python? | 2 |
| 4. Differentiate interactive and script mode of Python programming language? | 2 |
| 5. What are literals in Python? How many types of literals are there in Python? | 2 |
| 6. How string literal is represented in Python? | 2 |
| 7. What is a statement and expression? | 2 |
| 8. What is the role of indention in Python? | 2 |
| 9. What are variables? | 2 |
| 10. What is dynamic typing in python? | 2 |

B. Q 1. Find and write the o/p. (1)

```
A = [1,3,5,7,8,9]
```

```
print( A[3:0:-1] )
```

Q2. Find o/p of the following python code: (2)

```
a,b,c=10,12,15
```

```
b%=a
```

```
a**=b
```

```
X=a//b+c%b+b**2
```

```
print(a,b,c,sep=`:`)
```

Q3. Find o/p of the following python code: (2)

```
x,x = 4,7
```

```
y,y = x+7,x-7
```

```
x,y=y-x,x+y
```

```
Print(x,y)
```

Q4. Rewrite the output after removing all the error (2)

```
S=`pura vida'
```

```
S1=S[:5]
```

```
S2=S[5:]
```

S3=S1*S2

S4=S2+'3'

S5=S1+3

Q5. Predict and write the output : (2)

L=['p','r','o','b','l','e','m']

L[2:3]=[]

Print(L)

L[2:5]=[]

Print(L)

Q6. Which of the following are valid identifiers: (2)

1. File.dat
2. For
3. _if
4. Elif

Q7. Find and write the o/p (3)

X=["F",66,"QE",15,"S",34]

Y=0

Z=""

A=0

For c in range(1,6,2)

Y+=c

Z=Z+X[c-1]+'\$'

A+=X[c]

Print(x,y,z)

Q8. Write down the program in python to sort a 3-item list . (3)

Q9. Write a python script to print following. (3)

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Q10. Write a program that inputs two tuples and creates a third, that contains all elements of the first, followed by all elements of the second. (3)

Q11. Write a program that rotates a list so that 1st element moves to 2nd index and so on. The item at last index comes at first index. (3)

Q12. Write a program to count the number of elements in a list using dictionary. (4)

Q13. Explain computer organization with the help of a block diagram (4)

Q14. Explain various data types with suitable examples (4)

Q15. Write a program to read a line and print following statistics: (4)

- No. of uppercase characters
- No. of lowercase characters
- No. of alphabets
- No. of digits

Q16. Write down a python script to find the sum of following: (4)

$x - x^2/2! + x^3/3! - x^4/4! + x^5/5! - \dots$

Q17. Write a program to read a string with multiple words and then capitalizes the first letter of each word. (4)