

ST.JOSEPH CALASANZ CBSE SCHOOL,

KANYAKUMARI

SEMESTER I, 2019-2020

Informatics Practices

Class : XI

Max. MARKS: 70

- All the questions are compulsory
- The paper have four sections Section A, Section B, Section C, Section D
 - Section A has 10 questions carrying 1 marks each
 - Section B has 15 questions carrying 2 marks each.
 - Section C has 6 questions carrying 3 marks each.
 - Section D has 2 questions carrying 6 marks each.

Section A(10)

1. Which Loops are supported by python?
2. Which of the following is an invalid variable?
 - a) my_string_1
 - b) 1st_string
 - c) foo
 - d) _
3. Which is the correct operator for power(xy)?
 - a) X^y
 - b) X**y
 - c) X^^y
 - d) None of the mentioned
4. What is the difference between RAM and ROM?
5. What does a cross platform language mean?
6. Give the full form of EEPROM
7. Find out put
for I in range(2):
 print(i)
8. Compare Computer and Calculator in your words.
9. What will be the output of the following code ?
 - a) >>> x = 10
>>> type(x)
 - b) print((5<10) and(10<5))
10. What is the answer of this expression 22%3 is
 - a) 7
 - b) 1
 - c) 5
 - d) 0

Section B(30)

11. Which of the following can be used as valid variable identifier(s) in Python ?

(i) 4thSum (ii)Total (iii)Number# (iv) _Data

12. Draw a labeled diagram of basic computer system

13. What are data types in python? Give an example

14. Explain the functions of the CU and ALU in the CPU of a computer.

15. Write a python program for Arithmetic Operators?

16. What is the purpose of following operators $2 /, //, \%$

17. Write a python program to obtain three numbers and print their sum

18. Convert 78 into its binary equivalent number and verify it too.

19. Convert the following binary to decimal 1010100

20. Write a short a notes on Business Software.

21. Differentiate between object code and Source code.

22. Why python is Cross platform Language?

23. Find out the error

a) Print(x) c) else=21-5

b) x =24 d) a=5

5=x a+=5

Print(x) print(a)

24. Draw the flowchart for biggest among two nos.

25. Program to print a table of a number say 5.

Section C(18)

26. State the difference between first generation computers and second generation computers?

27. Find output of following

a) count = 0

while count < 5:

print(count)

count += 1

b) n=int(input("enter a number"))

fact=1

for i in range(1,n+1)

fact*=i

print(fact)

(Note: Let n be 5)

28. Explain briefly about Mutable and Immutable datatypes?
29. Explain briefly about selection control with examples
30. WAP to Check whether the Given no is " 0" display in words "ZERO" and the number less than zero then display in words "NEGATIVE" and the number is greater than zero then display in words "Positive"
(Assume 1) $n=-9$ 2) $n=0$ 3) $n=7$)
31. What are the pluses of python?

Section D (12)

32) What are the types of software in computer system and organization? Explain and give an example of each.

33) **Attempt any two python programs given below:**

- i) The sum of n real numbers (Get the n value read from the user)
- ii) Leela has 3 children . She bought 12 apples from market. She gave 5 apples to first son, 4 apples to second son, remaining she gave to the last son. Who got more apples find out the answer with the help of python program.
- iii) Check whether the given no is even or odd . If Even Print the next no .If Odd Print the Previous Number.
(Note: If the number is negative print the words "The given no is negative")