

KENDRIYA VIDYALAYA SANGATHAN GUWAHATI REGION				
HALF YEARLY EXAMINATION 2019-20				
SET: 1	CLASS :XI	SUB : INFORMATICS PRACTICES	TIME: 3 Hrs	M.M : 70
<p>General Instruction: - All Questions Are compulsory. Internal choices are given in some questions.</p> <ol style="list-style-type: none"> 1. Programming language used is python . Use appropriate variable names. 2. Please check that this question paper contains 4 printed pages. 3. Please check that this question paper contains 7 questions. 4. Please write down the serial number of the question before attempting it. 5. Indent your program appropriately. 				

- Q1 a. Expand the following terms 2
i. USB ii.EEPROM iii. DVDiv. CDRW
- b. What is secondary storage device? Give two examples. 2
- c. What are the basic components of any typical mobile system? 2
- d.. Explain the functions of the following units with an example 2
a. Input Unit
b. Output Unit
- e. Identify the following devices as input, output, storage and software. 2
Pen Drive, REDHAT LINUX, SSD, Joy Stick, Light Pen, SCANNER,CAMERA
- Q2 a. What are the functions performed by control unit in a computer? 2
b. Do you feel mobile phones are replacing computers, if yes then why? 2
b. Define Memory Access Time. 1
c. Differentiate between RAM and ROM. 2
d. Give the measuring unit of the following : 2
i. 4 bits = _____
ii. 1024 Kilo bytes = _____
iii. 1024 TB = _____
iv. 1024 bytes = _____
- Q3. a. Expand the term ASCII. 1
b. Explain the difference between ISCII and ASCII character encoding system. 2
c. Write a short note on Unicode character encoding system. 2
d. What are the functions of an Operating System? List out 3 of them. 2
e. Differentiate between an Interpreter and a Compiler. 2
f. How will you troubleshoot your computer if it fails to show up the interface? 2

- Q4. a. What is the role of indention in Python? 1
- b. List out the main Features of Python Programming Language. 2
- c. Differentiate interactive and script mode of Python programming language? 2
- d. Which of the following are not valid strings in Python: 2
- i. “ unforgotablelessness “
 - ii. ‘ unforgotablelessness ‘
 - iii. “ unforgotablelessness ‘
 - iv. ‘ unforgotablelessness“
- e. Identify the following literals types. 1
- a. 384.401 b. False
- f. What will be the output of following codes 2
- ```
print (8*2 - 2*4)
print (3 + 18/9 - 3**2+1)
print ((4 + 24)/8 - (2**3+3))
```

**[OR]**

What will be the output of following code

```
x = 5
y = -1
print ((x+y)*1./x)
print (3*x)
print (x)
```

- Q5. a. Why the code given below is not giving desired output. We want to input value as 10 and obtain output as 20. Could you pinpoint the problem? 2
- ```
Number = input (“enter number”)
DoubleTheNumber = Number * 2
Print (DoubleTheNumber)
```

[OR]

Why is the following code giving errors?

```
Name = “ Sita “
print (“Greetings !!!”)
    print (“Hello”, Name)
print (“How do you do?”)
```

- b. Write a Python Program to obtain radius of sphere and calculate its volume. 4
(hint $V = \frac{4}{3} * \pi * r^{**3}$)

[OR]

Write a Python Program to calculate the Simple Interest using principal, rate and time. Values of P,R,T needs to be accepted from the user.

- c. What will be the output produced by the following code 2

```
a, b, c, d = 9.2, 2.0, 4, 21
print ( a / 4)
print (a // 4)
print (b ** c)
print (a % c)
print (d // b)
print (a * b)
```

- d. Consider the following code containing mixed arithmetic expression. What will be the final result and the final data type? 3

```
ch= 5
i=2
fl=4
db=5.0
fd=36.0
A = (ch + i) / db
B = fd / db * ch / 2
print (A)
print (B)
```

[OR]

Write a program to print the circumference of a circle with radius 4.25 meters.

- Q6 a. Draw the flow chart to read a number and check whether the given number is odd or even. 4

[OR]

Draw a flowchart to accept three integers and print the largest of all.

- b. What values will be generated for the following range function 2
- range (5, 15, 3)
 - range (8, 2, -1)

[OR]

```
for i in range(1,50):
    if i%7==0:
        print(i)
```

- c. What is the use of range() function in python? Explain by giving an example. 2

[OR]

What do you mean by break statement in Python? Give an example.

d. What is the output of the following code? 2

```
d = {0: 'a', 1: 'b', 2: 'c'}  
for x in d.keys():  
    print(d[x])
```

Q7 a. Write a Python program to convert Celsius to Fahrenheit. 3

b. Rewrite following program using for loop 2

```
i = 4  
while i < 9:  
    print(i)  
    i = i+2
```

c. Write a Python program to reverse a three digit number. 4

OR

Write a python program to generate table of a number.

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