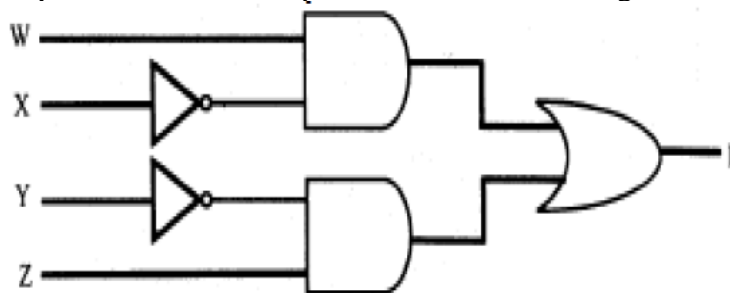


General Instructions:

- All questions are compulsory.
- Question paper is divided in 3 sections, A, B and C
 - Section - A : Unit-1
 - Section - B : Unit-2
 - Section - C : Unit-3

SECTION - A

- Q1** Arrange the following in ascending order: Byte, TB, Bit, MB, KB, GB, Nibble 1
- Q2** What is Unicode? 1
- Q3** What is the difference between compiler and interpreter? 1
- Q4** Which of the following are not input devices? 1
- (i) Keyboard
 - (ii) Microphone
 - (iii) Projector
 - (iv) Headphones
- Q5** Name any 2 temporary storage devices of the computer. 1
- Q6** Prove that $X.(X+Y) = X$, by truth table method 1
- Q7** What is the difference between System software and Application software? 1
- Q8** Write the equivalent Boolean expression for the following circuit. 1



- Q9** Convert the Following as Directed 2
- (i) $(534)_{10} = (?)_2$
 - (ii) $(101011)_2 = (?)_{10}$

SECTION-B

Q1 What is the difference between `==` and `=` operator **1**

Q2 What is the value of the expression `4+2**5//10` **1**

- i) 1233
- ii) 7
- iii) 9
- iv) 45

Q3 Write the Python code to create the dictionary to include the list of following names of students and their marks: **1**

Sameer	57
Tameem	90
Jhon	92
Jason	78

Q4 Why does python report error for the following: **1**

```
str1 = "Hello"  
str1[2] = 'p'
```

Q5 What will you get the output when you the following python code? **1**

- i. `'abc' * 2`
- ii. `'2' * '3'`

Q6 Name the function that tells the data type of an object. **1**

Q7 Name the Python Library modules which need to be imported to invoke the following functions: **1**

- (i) `sin()`
- (ii) `randint ()`

Q8 Write the following expressions using operators used in Python: **2**

- i) $x = a^3 + b^3 + c^3$
- ii) $A = \pi r(r+h)^2$

Q9 Identify the type of Token: **2**

- i) `D_O_B`
- ii) `True`
- iii) `*`
- iv) `if`

Q10 Rewrite the following code in python after removing all syntax error(s). **2**

Underline each correction done in the code.

```
30=To  
for A in range(0, To)  
IF A%4==0:  
print (A*4)  
ELSE:  
print (A+3) #indentation
```

- Q11** Find and write the output of the following python code: **2**
- ```

for i in range(2):
 print(i)

for i in range(4,6):
 print(i)

```
- Q12** Find and write the output of the following python code: **2**
- ```

for x in range(10,20): if(
    x % 2==0):
    continue
print(x)

```
- Q13** Find and write the output of the following python code: **2**
- ```

s = 'school2@com'
k=len(s)
m=" "

for i in range(0,k):
 if(s[i].isupper()):
 m=m+s[i].lower()
 elif s[i].isalpha():
 m=m+s[i].upper()
 else:
 m=m+'bb'
print(m)

```
- Q14** Write a program to accept an integer and print the multiplication table of that number till 10 in the following format. Eg: if number is 5 **2**
- ```

5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
.
.
5 x 10 = 50

```
- Q15** Write a program to count the number of words in a given String. **2**
- Sample Run:
Input: Hello this is my world
Output: Number of Words = 5
- OR

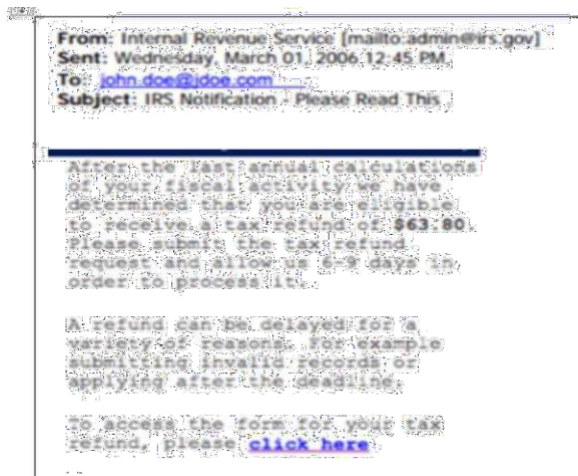
Differentiate between break and continue statement with the help of an example

- Q16** Write a program to find the area of a circle **2**
- Q17** Find the output of the following Python Code: **2**
- ```
>>>L1=[10,20,30]
>>>L2=[110,220,330]
>>>L3=L1+L2
>>>L4=L3[0:4]
>>>print(L4)
>>>L4[0]=L4[0]*10
>>>L4[2]=L4[1]*5
>>>L4[1]=L4[2]
>>>L4[3]=L4[3]-10
>>> print(L4)
```
- Q18** Write a Python Program to input a string to check whether it is a Palindrome string or not.(A Palindrome string is that which is same from both ends like-SIS,MADAM) **3**
- Q19** Find the output of the following Python Code: **3**
- ```
x=(100,200,300,400,500,600,700,200,300,500)
>>>print(x)
>>>print (min(x))
>>>print(x.count(500))
>>>print(x[0]+100)
>>>print(x.index(400))
>>>print(max(x)+len(x))
```
- Q20** Write a program in python to print Month name for the given month number. **4**
- Sample Output:**
- Input: Enter month number: 5
Output: It's May
- Q21** Write a program in python to print the following pattern from a given String: **4**
- Sample Output:**
- Input: ABCD
Output:
A
B B
CCC
DDDD
- Q22** Create the following lists using for loop: **4**
- i. A list containing of integers 1 through 100
 - ii. A list containing squares of integers 1 through 20

SECTION-C

Q1 Name any 2 social networking apps. **1**

Q2 **1**



Ravi received a mail form IRS department (as shown above). On clicking “ Click- Here”, he was taken to a site designed to imitate an official-looking website, such as IRS.gov. He uploaded some important information on it.

Identify and explain the cybercrime being discussed in the above scenario.

Q3 What is Cyber Law? **1**

Q4 How can we protect our computer from cyber threats? (give only 2 points) **1**

Q5 How can we hide our identity on the internet? (give only 2 points) **1**

Q6 What is cyber Bullying? Give an example to explain it. (In short) **2**

Q7 Define eavesdropping and phishing? **2**

Q8 What are the tips to safely browse the internet **2**

Q9 Describe Cyber Stalking **2**

Q10 What do you mean by a spyware and adware? **2**

-END-