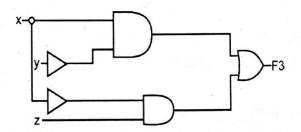
Please check total printed p	ages before start : 4	
Roll No. :		
HALF-YEARL	Y EXAMINATION. (2022-23)	
SUBJECT	: COMPUTER SCIENCE	
CLASS : XI		
Max. Marks: 70	Time Allowed: 3 hours	
_ loaneriols	(d) - 6 Indagložias .	
General Instructions:	1. Uhling and the second and the sec	
1. This question paper conta	ins three sections, Section A to C.	
2. All questions are compuls	sory.	
3. Section A have 11 question	ons carrying 1 mark each.	
4. Section B has 16 Short An	swer type questions carrying 2 marks each.	
5. Section C has 9 long Ans	wer type questions carrying 3 marks each.	
6. All programming question	ons are to be answered using Python	
Language only.	SEA MA MARKINES	
Tot nottemplasa trassa est	SECTION A	
<ol> <li>State True or False</li> </ol>	TOTAL BUTTERS MI DAS A MICE TO THE	
"Python is a case sens	itive language."	
2. Fill in the blank from g	iven options:	
KB = 2 MB	1 A A dis Fatse Duit R is Irus	
(a) 1024	(b) 2048	
(c) 2000	(d) 2024	
3. State first and second		
4. Expand the following.	melboor god noder viso believe 1/2 + 1/2	
(a) ISCII	(b) EPROM	
5. What is Unicode encod		
	s an invalid datatype in Python?	
(a) Set	(b) None	
(c) Integer	(d)Real	
7. What is Booting?	1	
Computer Science		

8.	Which of the following stater	ment(s) would give an error after	
	executing the following code?	# Statement 1	
and the second	S="Welcome to class XII"	14. : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1] : [1]	
	print(S)	# Statement 2	
	S="Thank you"	# Statement 3	
	S[0]= '@'	# Statement 4	
	S=S+"Thank you"	# Statement 5	
	(a)Statement 3	(b) Statement 4	
	(c)Statement 5	(d) Statement 4 and 5	
9.	What will the following expre	ssion be evaluated to in Python?	
	print(15.0 / 4 + (8 + 3.0))		
	(a) 14.75	(b) 14.0	
	(c) 15	(d) 15.5	
10.			
	example.		
	Q11 is ASSERTION AND REASONING based questions. Mark the		
	correct choice as		
	1. Both A and R are true and R is the correct explanation for A		
	2. Both A and R are true and R is not the correct explanation for A		
	3. A is True but R is False		
	4. A is false but R is True		
11.	A C (A) If the condition of the last		
	body is not executed even once.		
	Reasoning (R):- During execution of while loop, body of the loo		
	executed only when loop con-	dition gets true . 1	
		ION B	
12.	Differentiate between RAM an	d ROM. 2	
13.	Write down any four features	아들이 하게 오르다 보다 마음을 가지 않는 것이다. 그 사람들은 그리고 아이들의 사람들이 되는 사람들은 아이들을 가지 않는데 가지 않는데 가지 않는데 하다고 있다면서 어려워 했다.	
14.	Differentiate between compiler and interpreter. Write any two		
	difference.	2	
15.	Convert the following number		
XI-	Computer Science	[P.T,O.]	
		[P.1,0.]	

- (a)  $(ABC.72E)_{16}$  to  $(?)_2$
- (b)  $(11001011)_2$ to  $(?)_{10}$
- 16. What is utility software? Write any two utility software with their use 2
- 17. Define Operating system software? Write any two functions of operating systems. 2
- 18. What are Universal Gates? Write examples with their symbol and truth table.
- Draw the logic circuit diagram for the function f(x,y,z) = xy+xy'+x'z. 2 19.
- 20. Identify the value of F3:



Rewrite the following code in python after removing all syntax 21. error(s).

Underline each correction done in the code.

2

30=To

for K in range(0, To)

IF k%4==0:

print (K\*4)

Else:

print (K+3)

Change the following python code using while loop which produces 22. same output as with for loop :

for x in range(10,20):

if 
$$(x\%2==0)$$
:

print(x)

- Differentiate between syntax error and semantic error with example.2 23.
- Find the output of following python code: 24.

2

[P.T.O.]

XI-Computer Science

```
x,y=7,2
     x,y,x=x+1,y+3,x+10
     print(x,y)
     Write following arithmetic expressions using operators in Python: 2
25.
                                            (b) x=a^3 + b^3 + c^3
     (a) C = \frac{a+b}{2a}
                                            (d) x=a^{34}
     (C) A=\pi r(r+h)^2
26.
     Predict the output of the following code fragment-
                                                                        2
     x = 1
     if x>3:
          if x>4:
                print("A", end=")
     else:
     print("B", end=")
     elif x<2:
     if (x!=0):
           print("C", end=")
     print("D")
     What are mutable and immutable data types? Explain with examples.2
27.
                              SECTION C
     What are functional units of computer? Explain using block diagram.3
28.
29.
     Define the following terms:
                      (b) Application Software (c) Assembler
     (a)
          ASCII
     What do you mean by XOR gate? Explain XOR gate, giving its truth
30.
     table, expression and circuit diagram for two inputs.
     Draw a Flowchart to find the smallest among three accepted numbers.3
31.
     Write a python program to input a number and finds its factorial.3
32.
33.
     Define the following:
     (a)
           Keywords
                          (b) Identifiers
                                                      Unary Operators
                                                 (c)
     Write a python program to input a number from user to check and
34.
     print whether it is a PRIME Number or not.
     Write a python program to calculate compound simple interest
35.
     after taking the principle, rate and time.
     Write a python program to find the sum of first n odd numbers. 3
XI-Computer Science
                                                                  [P.T.O.1
```