

HALF YEARLY EXAMINATION

SEPTEMBER 2019

SET c

CLASS XI

Marking Scheme – Computer Science

QNO	Answers	Marks
1 a	CPU (ALU, Registers, Control Unit), Memory, input unit, output unit, Storage unit etc. 1 m for the correct answer	1
b	1 m for definition and 1 m for correct types	2
c	1 m for correct answer	1
d	2 m for correct answer	2
e	Any 2 difference 1 m each for correct answer	2
2 a	i. $X'+Y.X+Y.X+Y'$ ii. $(A.1).(A+0+A')$ 1 m each for correct answer	2
b	2 m for correct design and symbols	2
c	1 m for definition and 2 m for truth table	3
3 a	1 m for correct answer	1
b	1 m for correct answer	1
c	1 m each for correct answer.	2
d	1 m each for correct answer	2
e	2 m for correct answer	2
f	Correct symbols and correct logic 1 m each	2
4 a	1 m for correct answer	1
b	1 m for correct answer	1
c	1 m for correct answer	2
d	1 m for difference and 1 m for example	2
e	1 m each for the correct answer	2
f	15 25 14 50 ½ m each for correct answer	2
5 a	1 m for correct answer	1

b	1 m for correct answer	1
c	28 24 20 16	2
d	<p>Find errors in the following code (if any) and correct it. Rewrite the correct code.</p> <p>i. a,b,c= 10,20,4 x=a+bc+ a*c --→ b*c</p> <p>ii. age=int(input("Enter any character ")) if age>18: print("Major") elif age < 18: print("Senior") else: PRINT("Minor") -→ print</p> <p>½ m for each error</p>	2
e	<p>[8, 2, 24, 4, 5, 24] [24, 4, 5] 1 m each for each line</p>	2
f	<p>N= 20 sum = 0 for i in range(1,20,3): if i%2==0: sum = sum+i print(sum)</p> <p>Output is 30 2 m for for loop and 1 m for output</p>	3
6 a	Difference 2 m and exception 1m.	3
b	for correct initialization, test condition & nested loop 1 m each	3
c	<p>2 @ 0 2 @ 1 4 @ 0 4 @ 1 4 @ 2 4 @ 3 21 2 marks for loop part 1 m final output</p>	3
d	1 m for explanation and eg. 2 m for correct output	3
7 a	<p>1 m for input statement 1 m for loop 1 m for getting the number in reverse 1 m for print statement</p>	4
b	<p>1 m for input statement 1 m for loop 1 m for getting the number in reverse</p>	4

	1 m for print statement	
c	1 m for input statement 1 m for loop 1 m for getting the number in reverse 1 m for print statement	4
	End of the Question Paper	