### INDIAN SCHOOL MUSCAT

# **ANNUAL EXAMINATION 2020**

### **CLASS XI**

# SET A

# **Marking Scheme – Computer Science**

QNO	ANSWER	MARKS
1 a	1 m for the correct definition	1
b	½ m for the correct difference	1
c	1 m for correct explanation	1
d	100011100 1 m for correct answer	1
e	1 m for Distributive law and 1 m for truth table	2
f	2 m for the correct diagram	2
g	i. 120 ii. 1010 0010 1011 1 m each for the correct answer	2
2 a	%per, for ½ m each	1
b	1 m for definition and 1 m for difference	2
С	What will be the output of the following code:	2
	ALL THE BEST	
	Annual Examination 2020	
	100+120	
	0	
	9	
	½ m each for the correct answer	
d	1 m for difference and 1 m for example	2
e	Will the following program execute successfully? If not correct it:	2
	s1=s2=0	
	for x in range $(0,11)$ :	
	num=int(input("Enter a Number")) ½ m	
	<b>if</b> (num>0): ½ m	
	s1=s1+num	

S2=S2/num (space) ½ m   print(s1, ' and ', s2) ½ m   No and ½ m each for the four correction		else:	
No and ½ m each for the four correction		s2=s2/num (space) ½ m	
To   m each for the correct answer   3   3   3   6   6   9   10   ½ m for the correct answer   2   10   ½ m for the correct answer   2   10   ½ m for the correct answer   2   10   10   ½ m for the correct answer   2   10   10   10   10   10   10   10		print(s1, 'and ', s2) ½ m	
3 a   5   6   9   10   10   ½ m for the correct answer		No and ½ m each for the four correction	
6	f	1 m each for the correct answer	3
9	3 a	5	2
10		6	
1		9	
b   h@m@la@@		10	
HoMeLAnd   1 m each for the correct answer   2		½ m for the correct answer	
1 m each for the correct answer	b	h@m@la@@	2
C		HoMeLAnd	
i. True ii. True  d N=30 sum = 0 for i in range(1,N,3):     if i%2!=0:     sum = sum+i     print(sum)     65     1½ m for conversion and ½ m for output  e I m for input and output     2 m for logic  f ½ m for difference ½ m for output 6 & 8  I un for any one valid difference  b 3     1 m for correct answer  c I m for correct answer  d 16.0     4500.73     61     74		1 m each for the correct answer	
ii. True       2         d       N= 30 sum = 0 for i in range(1,N,3): if i%2!=0: sum = sum+i print(sum) 65 1½ m for conversion and ½ m for output       3         e       1 m for input and output 2 m for output 6 & 8       1         f       ½ m for difference ½ m for output 6 & 8       1         d       1 m for any one valid difference       1         b       3 1 m for correct answer       1         c       1 m for correct answer       1         d       4500.73 61 74       2	С		2
d			
for i in range(1,N,3):     if i%2!=0:         sum = sum+i     print(sum)     65     1 ½ m for conversion and ½ m for output  e    1 m for input and output     2 m for logic  f    ½ m for difference ½ m for output 6 & 8     1 4 a    1 m for any one valid difference     1  b    3     1 m for correct answer  c    1 m for correct answer  d    16.0     4500.73     61     74	d	N= 30	2
if i%2!=0:     sum = sum+i     print(sum) 65 1 ½ m for conversion and ½ m for output  e			
print(sum)   65   1 ½ m for conversion and ½ m for output   2 m for input and output   2 m for logic   1 m for difference ½ m for output 6 & 8   1			
65 1 ½ m for conversion and ½ m for output  e		sum = sum + i	
1 ½ m for conversion and ½ m for output       3         2 m for logic       3         4 a 1 m for any one valid difference       1         b 3 1 m for correct answer       1         c 1 m for correct answer       1         d 16.0 4500.73 61 74       2			
e       1 m for input and output       3         2 m for logic       1         f       ½ m for difference ½ m for output 6 & 8       1         4 a       1 m for any one valid difference       1         b       3       1         1 m for correct answer       1         d       16.0       2         4500.73       61         74       2			
f       ½ m for difference ½ m for output 6 & 8       1         4 a       1 m for any one valid difference       1         b       3       1         1 m for correct answer       1         c       1 m for correct answer       1         d       16.0         4500.73       61         61       74	e		3
4 a 1 m for any one valid difference 1  b 3 1 m for correct answer  c 1 m for correct answer 1  d 16.0 4500.73 61 74		2 m for logic	
b 3 1 1 1 m for correct answer 1 1 d 16.0 2 4500.73 61 74	f	½ m for difference ½ m for output 6 & 8	1
1 m for correct answer       1         c       1 m for correct answer       1         d       16.0	4 a	1 m for any one valid difference	1
c 1 m for correct answer 1  d 16.0 4500.73 61 74	b	3	1
d 16.0 4500.73 61 74		1 m for correct answer	
4500.73 61 74	С	1 m for correct answer	1
61 74	d		2
74			

	2 m for logic	
f	1 m for input and output	3
	2 m for logic	
5 a	1 m each for definition and example	2
b	1 m each for the correct answer	2
С	½ m each for explanation and example	1
6 a	1 m each for the correct answer	6+4
7 a	2 m for correct explanation	2
b	2 m for correct explanation	2
С	1 m each for the correct answer.	2
d	½ m each for the correct answer.	2
e	1 m for correct answer	1
f	1 m for correct answer	1
	End of the Question Paper	