D

D

G

MA 110 Quiz 2

Multiple Choice. Choose the one alternative that best completes the statement or answers the question. Put the **letter** of your answer in the box provided.

Table 1.1 below describes an election with four candidates (A, B, C, D) and preference schedule:

Number of Votes	1	2	8	9
1 st Choice	В	D	D	В
2 nd Choice	С	С	А	D
3 rd Choice	D	В	С	С
4 th Choice	A	A	В	A

1. In Table 1.1, which candidate wins the election by the method of pairwise comparisons?

	A vs B	8-12	B 1	Total Points
a. A	A vs C	8-12	C 1	A 0
b. B	A vs D	0-20	D 1	B 2
c. C	B vs C	10-10	B ½ C ½	C 1.5
d. D	B vs D	10-10	B ½ D ½	D 2.5
e. There is a tie.	C vs D	1-19	D 1	Winner is D.

2. Using the plurality method, there is a tie in the election in Table 1.1. Which candidate wins the tie-breaker if you use bottom-up comparison?

a. A	B and D are tied with 10 first place
b. B	votes each.
c. C	Last place votes: B-8, D-0.
d. D	D wins.
e. There is still a tie.	

3. Consider the weighted voting system [5: 3, 2, 1, 1]. Which player, if any, has veto power?

- a. P_1 Removing P_1 , the
remaining weights do not
add up to 5 or more.e.b. P_2 remaining weights do not
add up to 5 or more.f.
- e. No player has veto power.
 - f. More than one player has veto power.

4. Consider the weighted voting system [q: 3, 2, 2, 2, 1]. The largest reasonable value the quota q can take is

a.	4	·	e.	8
b.	5	The sum of the weights	f.	9
c.	6	is 10. The quota cannot	g.	10
d.	7	exceed that.	h.	11