

Venn Diagrams : CAT 19

Students in a college are discussing two proposals --

A: a proposal by the authorities to introduce dress code on campus, and

B: a proposal by the students to allow multinational food franchises to set up outlets on college campus.

A student does not necessarily support either of the two proposals. In an upcoming election for student union president, there are two candidates in fray: Sunita and Ragini. Every student prefers one of the two candidates.

A survey was conducted among the students by picking a sample of 500 students. The following information was noted from this survey.

1) 250 students supported proposal A and 250 students supported proposal B.

2) Among the 200 students who preferred Sunita as student union president, 80% supported proposal A.

3) Among those who preferred Ragini, 30% supported proposal A.

4) 20% of those who supported proposal B preferred Sunita.

5) 40% of those who did not support proposal B preferred Ragini.

6) Every student who preferred Sunita and supported proposal B also supported proposal A.

7) Among those who preferred Ragini, 20% did not support any of the proposals.

Among the students surveyed who supported proposal A, what percentage preferred Sunita for student union president? [TITA]

What percentage of the students surveyed who did not support proposal A preferred Ragini as student union president? [TITA]

What percentage of the students surveyed who supported both proposals A and B preferred Sunita as student union president?

1. 25
2. 50
3. 40
4. 20

How many of the students surveyed supported proposal B, did not support proposal A and preferred Ragini as student union president?

1. 40
2. 210
3. 200
4. 150

Ans Key

64

84

b

d