The following table shows total number of students in the Department of the Institute along with percentage of Females and Male students. Answer the question based on the data given below:

Department	Total No. of Students	Percentage of female	Percentage of Male
Computer	840	45	55
Civil	220	35	65
Mech.	900	23	77
Electrical	360	65	35
Electronics	450	44	56
Mining	540	40	60

Q1. What is the respective ratio of the number of females in Mechanical Department to the number of females in Electronics Department?

(1) 4 : 3

(2) 23 : 22

(3) 24:21

(4) 23 : 21

Sol.

The number of females in Mechanical department = 900 * 23/100 = 207

The number of females in Electronics department = 450 * 44/100 = 198

207/198 = 23/22

Q2. What is the total number of students in all the Departments?

(1) 2210
(2) 3210
(3) 3400
(4) 3310

Sol.

Total number of Students in all department = 840+220+900+360+450+540 = 3310

Q3. What is the total number of male students in Computer and Mining Department together?

(1) 266
(2) 886
(3) 786
(4) 686

Sol.

Number of male students in Computer department = 840* 55/100 =462

Number of male student in Mining Department = 540* 60/100 = 324

Total number of male students in both department = 462 + 324 = 786

Q4. What is the ratio of the number of females in Civil and Electrical departments together to the number of males in the same Departments together?
(1) 311 : 270
(2) 329 : 261
(3) 411 : 469
(4) 311 : 269

Sol.

Number of females in Civil department = 220*35/100 = 77

Number of females in Electrical department= 360*65/100= 234

Total females in both department = 77+ 234= 311

Number of males in Civil department = 220*65/100= 143

Number of males in Electrical department = 360*35/100=126

Total number of males in both department = 143+126 = 269

311 / 269.

Q5. What is the average percentage of female students in the whole Institute ?
(1) 42.0%
(2) 41.0%
(3) 43.0%
(4) 41.5%

Sol.

Total percentage of female =45+35+23+65+44+40 =252

Average percentage in institute =252/6=42%

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8. Which of the following are non-probability sampling methods