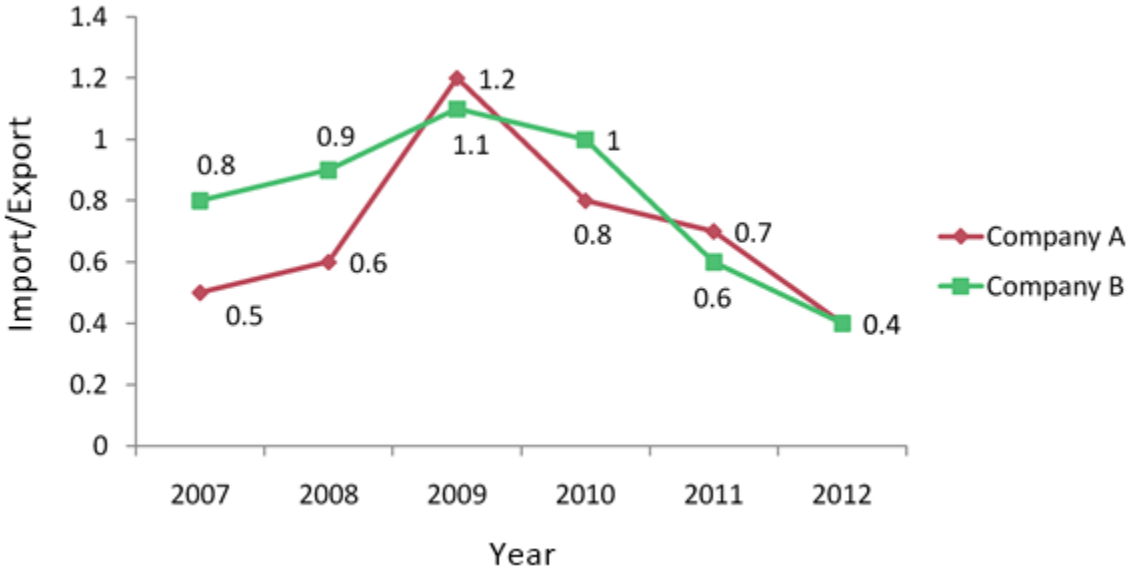
Date Interpretation Line Chart Questions for Bank PO Exams.

DI Line Chart Quiz 11

Direction : Study the following line graph carefully to answer the questions that follow.

The following graph shows the ratio of imports to exports by two companies over the years.



1. If the export of Company A In the year 2008 was Rs. 105 lakh and the import of Company B in the year 2007 was Rs. 72 lakh, the import of Company A in the year 2008 is approximately what per cent of the export of Company B in the year 2007?

A. 60% B. 70% C. 80% D. 90% E. None of these

2. If the import of Company A is increased by 50% and the export is decreased by 20% in the year 2010, what will be the new ratio of import to export of Company A in that year?

A. 5 : 4 B. 4 : 3 C. 3 : 2 D. 2 : 1 E. None of these

3. If the import of Company A in the year 2010 and the export of Company B in the year 2011 are equal, what will be the ratio of the export of Company A in the year 2010 to the import of Company B in the year 2011?

A. 2 : 5 B. 3 : 5 C. 4 : 5 D. 6 : 5 E. None of these

4. The ratio of import export of Company A in the year 2011 is what per cent of the ratio of import to export of Company B in the year 2012?

A. 75% B. 125% C. 175% D. 225% E. None of these

5. If the import of Company A in the year 2010 and the import of Company B in the year 2008 are equal and they are Rs. 108 lakh each then the export of Company A in the year 2010 is what percent of the export of Company B in the year 2008?

A. 88.88% B. 112.5% C. 120% D. 127.5% E. 150%

Correct Answers:

1	2	3	4	5
B	C	E	C	B

Explanations:

1.

$\frac{\text{Import}_{A2008}}{\text{Export}_{A2008}} = 0.6$

$\frac{\text{Import}_{B2007}}{\text{Export}_{B2007}} = 0.8$

Now, $\text{Export}_{B2007} = \frac{72}{0.8} = 90$ lakh

Again, $\text{Import}_{A2008} = 0.6 \times 105 = 63$ lakh

$\therefore$ Reqd. % $= \frac{63 \times 100}{90} = 70\%$

Hence, option B is correct.

2.

Initially, $\frac{\text{Import}_{A2010}}{\text{Export}_{A2010}} = 0.8 = \frac{4}{5}$

Now, $I_{increased} = \text{Import}_A + \text{Import}_A \times \frac{50}{100}$

$= \frac{3\ \text{Import}_A}{2}$

$\text{Export}_{increased} = \text{Export}_A - \text{Export}_A \times \frac{20}{100}$

$= \frac{4\ \text{Export}_A}{5}$

New ratio $= \frac{3\text{Import}_A}{2} \times \frac{5}{4\text{Export}_A}$

$= \frac{15}{8} \times \frac{\text{Import}_A}{\text{Export}_A}$

$= \frac{15}{8} \times \frac{4}{5}$

$= \frac{3}{2} = 3 : 2$

Hence, option C is correct.

3.

$\frac{\text{Import}_{A2010}}{\text{Export}_{A2010}} = 0.8 = \frac{4}{5}$ .....(i)

$\frac{\text{Import}_{B2011}}{\text{Export}_{B2011}} = 0.6 = \frac{3}{5}$ .....(ii)

Now, from eqn (i) , we have

$\text{Export}_{A2010} = \frac{5}{4}\text{Import}_{A2010}$

Again, from eqn (ii), we have

$\text{Import}_{B2010} = \frac{3}{5}\text{Export}_{B2010}$

$\therefore \frac{\text{Export}_{A2010}}{\text{Import}_{B2011}}$

$= \frac{5\ \text{Import}_A}{4} \times \frac{5}{3\text{Export}_B}$

$= \frac{25}{12} = 25 : 12$

[$\because$ $\text{Import}_A = \text{Export}_B$]

Hence, option E is correct.

4.

$\therefore$ Reqd. % $= \frac{0.7}{0.4} \times 100 = 175\%$

Hence, option C is correct.

5.

$\frac{\text{Import}_{A2010}}{\text{Export}_{A2010}} = 0.8$

$\therefore$ $\text{Export}_{A2010} = \frac{\text{Import}_{A2010}}{0.8} = \frac{108}{0.8} = 135$ lakh

Now, $\frac{\text{Import}_{B2008}}{\text{Export}_{B2008}} = 0.9$

$\therefore$ $\text{Export}_{A2008} = \frac{\text{Import}_{B2008}}{0.9} = \frac{108}{0.9} = 120$ lakh

$\therefore$ Reqd. % $= \frac{135 \times 100}{120} = 112.5\%$

Hence, option B is correct.