

## D.I. Questions

**Sol.** In the year 2000, exports were 60 while the imports were 50. So 10% of 50 is 5. And thus the total will be 55. Here  $60 > 55$ . Similarly in 2001,  $110 = 10\%$  of 100. In 2002,  $120 < 130$ . For 2003,  $120 > 10\%$  of 100. For 2004,  $150 < 10\%$  of 140.

In 2005,  $190 < 10\%$  of 180. So there are years i.e. 2000 and 2003 where exports were 10% greater than the Imports. So the correct answer is B.

**Ex 2.** For all the years mentioned what is the average of the exports?

**Sol.** Here from the figure the average of the exports will be:  $(60 + 110 + 120 + 120 + 150 + 190) / 6 = 125$ .

**Ex 3.** From the numbers given in the figure below, what will be the average annual growth for the imports done from 2001 to 2005?

**Sol.** Imports done in 2001 = 110

Imports done in 2005 = 190

So, the annual growth =  $(190 - 110) / 110 \times 100 = 72.72\%$

Now, the average growth will be  $72.72 / 5 = 14.5$ .

**Ex 4.** From 2000 to 2005 in which was the growth in imports as compared to the previous years was the highest?

**Sol.** From the figure, we can determine that imports grew only in 2001, 2002, 2004, and 2005.

For 2001,  $(50 \times 100) / 60 = 83.33$

For 2002,  $(10 \times 100) / 110 = 9.09$

For 2004,  $(30 \times 100) / 120 = 25$

For 2005,  $(40 \times 100) / 150 = 26.66$

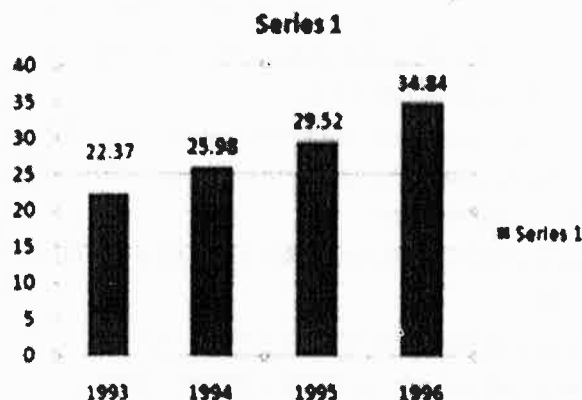
This type of questions can be solved quickly if you compare the base for every year. Here for 2001, the base value is 60 and thus chances are high the growth in 2002 must have been higher. You can look for this in the exams and start by solving 2002. This will save a lot of your time.

**Ex 5.** In how many years does the export as well as import increases as compared to the previous years. And among them, in how many years was the percentage increase in export was greater than the percentage increase in imports

**Sol.** Out of all the years given in the figure, the imports and exports as compared to the previous are increased in every year except 2000 and 2003. Out of the four in which imports and exports have increased, in no year does the percentage increase in export is greater than the percentage increase in imports. Thus the correct answer is A.

## Practice Questions

**DIRECTIONS for questions 1 to 4:** In the following graph, the increase in the wheat over years is shown. Based on this answer the questions below.



**Ex 1.** How much does the wheat grow in 1994 as compared to the previous year?

**Sol.** 16.1%

**Ex 2.** What was an increase in the average rate of growth of wheat from 1993 to 1995?

**Sol.** 16%

**Ex 3.** How much percentage of growth of wheat was less in 1994 as compared to 1993?

**Sol.** 13.9%

**Ex 4.** What was the average of the total wheat, grew from 1995 to 1997?

**Sol.** The correct answer is 26 tonnes

**Directions for questions 1 to 3:** Refer to the graph given below and answer the questions given after that accordingly.

**The graph given shows price variation of three types of wood over 1987 - 1993 in Rs/m<sup>3</sup>. 1 ton = 1000 kg and 1 m<sup>3</sup> = 800 kg.**

