RBI PHASE 1 RECAP

3rd August ‘18

QUANT – DATA INTERPRETATION (BAR GRAPH)
I. The following questions are based on the stacked bar graph given which represents the commodity composition of India’s Import from China for the years 1998-99 to 2002-03.
Q.1) Which of the following commodities have shown similar trend in terms of import from China for the given years?
[a] Organic chemicals and mineral oil
[b] Silk and lime and cement
[c] Silk and mineral oil
[d] None of these

Solution (d)
By observation none has shown similar trend in terms of import from China for the given years.
I. The following questions are based on the stacked bar graph given which represents the commodity composition of India's Import from China for the years 1998-99 to 2002-03.
Q.2) In 1999-00, lime and cement represent 5.3% of the total import and in the year 2002-03 mineral oil represents 11.3% of the total import in that year. Find the percentage increase/decrease in the total quantity of import.

[a] 35% increase
[b] 57.4% increase
[c] 35% decrease
[d] 57% decrease

Solution (a)
Total import of all the items in 1998-99:
= \( \frac{(35 \times 100)}{5.3} = 660 \) (‘000 kg)

In 2002-03 = \( \frac{(175 \times 100)}{11.3} \)
= 1549 (‘000 kg)

The total import has increased and in terms of %, it is:
\[ \frac{\text{new import} - \text{old import}}{\text{old import}} \times 100 \]
\[ = \frac{1549 - 660}{660} \times 100 \]
\[ = 889 / 660 \times 100 \]
\[ = 135\% \]

Increase % = 35%
I. The following questions are based on the stacked bar graph given which represents the commodity composition of India's Import from China for the years 1998-99 to 2002-03.
Q.3) What is the average annual percentage increase in the import of electrical machinery from 1998-99 to 2002-03?

[a] 34%
[b] 7%
[c] 134%
[d] 107%

Solution (c)
Average annual percentage = \([\frac{(\text{new} - \text{old})}{\text{old}} \times 100 \times \frac{1}{n-1}]\) (n is the years)
= \([\frac{(700-110)}{110}] \times 100 \times \frac{1}{4}\)
= \((590/110) \times 100 \times \frac{1}{4}\)
= 134%
I. The following questions are based on the stacked bar graph given which represents the commodity composition of India’s Import from China for the years 1998-99 to 2002-03.
Q.4) For how many years, is the import of electrical machinery more than the import of mineral oil in terms of the percentage of total import?
[a] One
[b] Two
[c] Three
[d] None

Solution (b)
By observation, the import of electrical machinery is more than the mineral oil for 2001-02 and 2002-03. The percentage may not be required to find as the base i.e., the denominator will be the same for both electrical machinery and mineral oil.
I. The following questions are based on the stacked bar graph given which represents the commodity composition of India’s Import from China for the years 1998-99 to 2002-03.
Q.5) If the average excise tax per kg on total import items increased by 25% in 2000-01 over 1999-00, then the cost of which item is the least in the year 2000-01?  
[a] Silk 
[b] Mineral oil 
[c] Lime and Cement 
[d] Cannot be determined 

Solution (d) 
As we don’t know the price per kg of each item for any of the years, we cannot find for which item, the cost is the least.