



# Data Interpretation



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## !!! TABULATION !!!

This section comprises of questions in which certain data regarding common discipline as production over a period of a few years, imports, exports, incomes of employee in a factory, students applying for and qualifying a certain field of study etc are given in the form of a table. The candidate is required to understand the given information and thereafter answer the given questions on the basis of comparative analysis of the data.

Thus, here the data collected by the investigator are arranged in a systematic form, called the tabular form. In order to avoid some heads again and again, tables are made, consisting of horizontal lines called rows and vertical lines called columns with distinctive heads, known as captions. Units of measurements are given with the captions.

## SOLVED EXAMPLES

**Directions (Ex. 1 to Ex. 5)** Study the following table carefully to answer the questions that follow;

Farmers	Food Grains				
	Corn	Rice	Jowar	Wheat	Bajra
<b>P</b>	450	200	150	275	145
<b>Q</b>	140	180	220	225	120
<b>R</b>	300	540	320	100	50
<b>S</b>	150	460	480	350	200
<b>T</b>	190	285	315	240	265
<b>U</b>	280	190	130	115	140

- 1) The quantity of rice produced by farmer T is approximately what per cent of the quantity of rice produced by farmer R?  
 (A) 53                      (B) 48                      (C) 56                      (D) 45                      (E) 59
- 2) What is the average quantity of total food grains produced by farmer T?  
 (A) 265 kg                (B) 240 kg                (C) 259 kg                (D) 245 kg                (E) None of these
- 3) Which farmer produced the highest total quantity of food grains in the year?  
 (A) P                      (B) R                      (C) T                      (D) U                      (E) None of these
- 4) What is the ratio of the total quantity of corn, rice and Jowar together produced by farmer U to the total quantity of wheat and bajra together produced by the same farmer?  
 (A) 8:3                      (B) 40:17                      (C) 3:8                      (D) 17:40                      (E) None of these
- 5) What is the difference between the quantity of wheat produced by farmer S and the quantity of corn produced by farmer Q?  
 (A) 200 kg                (B) 240 kg                (C) 220 kg                (D) 210 kg                (E) None of these

**Answers:**

<b>1</b>	<b>A</b>	<b>2</b>	<b>C</b>	<b>3</b>	<b>E</b>	<b>4</b>	<b>B</b>	<b>5</b>	<b>D</b>
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**Directions (Ex. 6 to Ex. 10)** Study the following table carefully to answer the questions that follow;

**Number of students appeared (A) for an examination and percentage of students qualified (Q) in the examination from four different states over the years**

Years	States							
	Gujarat		Maharashtra		Punjab		Odisha	
	A	Q	A	Q	A	Q	A	Q
<b>2005</b>	2500	15%	8000	20%	4400	25%	3200	18%
<b>2006</b>	5600	16%	6250	18%	5000	30%	4850	22%
<b>2007</b>	3400	25%	5900	19%	6720	15%	4800	14%
<b>2008</b>	8120	20%	6450	26%	7200	23%	6000	28%
<b>2009</b>	7100	13%	6000	30%	7500	16%	7000	29%

- 6) What is the total number of students who qualified in the examination in the year 2006 from all the states together?  
 (A) 3692 (B) 4050 (C) 4588 (D) 3898 (E) None of these
- 7) What is the difference between the number of students who qualified in the examination in the year 2009 from State Gujarat and those who qualified in the examination in the same year from State Punjab?  
 (A) 254 (B) 268 (C) 277 (D) 289 (E) None of these
- 8) What is the ratio of the number of students who did not qualify in the examination from State Maharashtra in the year 2007 to the number of students who qualified in the examination in the same year from the same State?  
 (A) 19:81 (B) 17:77 (C) 81:17 (D) 77:19 (E) None of these
- 9) What is the average number of students who appeared for the examination from State Odisha over the years?  
 (A) 4850 (B) 5090 (C) 5170 (D) 4900 (E) None of these
- 10) The number of students who qualified in the examination from State Odisha in the year 2006 is approximately what per cent of the number of students who qualified in the examination from State Gujarat in the year 2008?  
 (A) 66 (B) 70 (C) 59 (D) 63 (E) 74

**Answers:**

<b>6</b>	<b>C</b>	<b>7</b>	<b>C</b>	<b>8</b>	<b>E</b>	<b>9</b>	<b>C</b>	<b>10</b>	<b>A</b>
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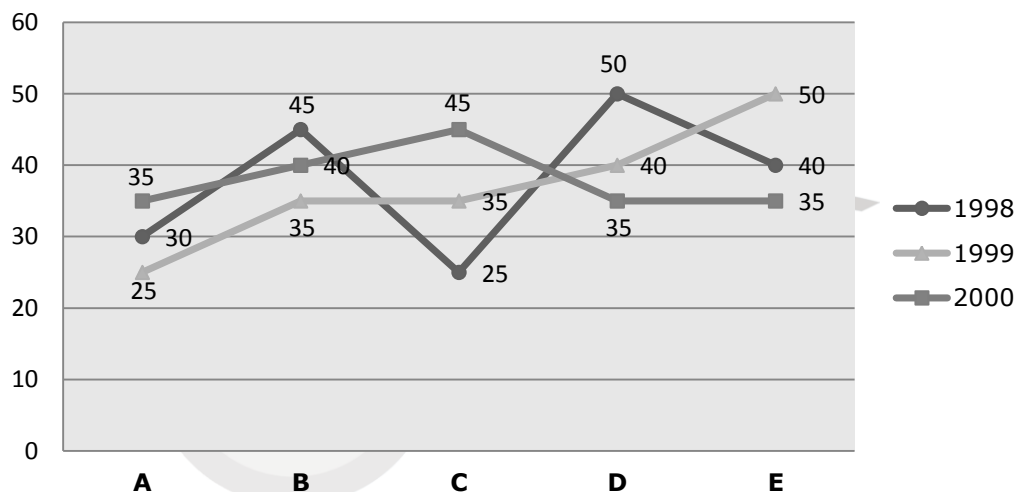
## !!! LINE-GRAPHS !!!

This section comprises of questions in which the data collected in a particular discipline are represented in the form of Line-Graphs drawn with one parameter plotted on the horizontal axis and the other on the vertical axis. The candidate is required to understand the given information and thereafter answer the given questions on the basis of data analysis.

### SOLVED EXAMPLES

**Directions (Ex. 1 to Ex. 5)** Study the following Line-graph carefully to answer the questions that follow;

**The Production of Sugar in lac Tonnes by different companies for three years 1998, 1999 and 2000**



- For which of the following companies the rise or fall in production of sugar from 1998 to 1999 was the maximum?  
(A) E & D      (B) D & C      (C) B, C & D      (D) B, C, D & E      (E) None of these
- The total production by five companies in 2000 is what percent of the total production by companies B & D in 1998?  
(A) 100%      (B) 95%      (C) 190%      (D) 200%      (E) None of these
- What is the ratio between average production by company B in three years to the average production by company A in three years?  
(A) 6:7      (B) 8:7      (C) 4:3      (D) 7:6      (E) None of these
- The maximum average production for three year is what percent of the minimum average production for three years?  
(A) 38.89%      (B) 138.89%      (C) 72%      (D) 28%      (E) None of these
- What is the percent drop in production by company D from 1998 to 2000?  
(A) 15      (B) 30      (C) 43      (D) 35      (E) None of these

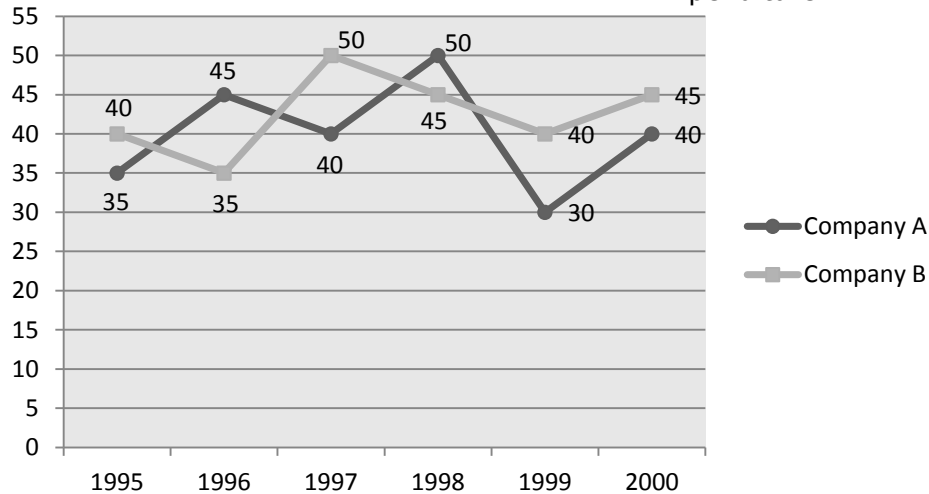
**Answers:**

<b>1</b>	<b>D</b>	<b>2</b>	<b>D</b>	<b>3</b>	<b>C</b>	<b>4</b>	<b>B</b>	<b>5</b>	<b>B</b>
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**Directions (Ex. 6 to Ex. 10)** Study the following Line-graph carefully to answer the questions that follow;

**Per Cent Profit earned by two Company A and B over the given Years**

$$\text{Percent Profit} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$



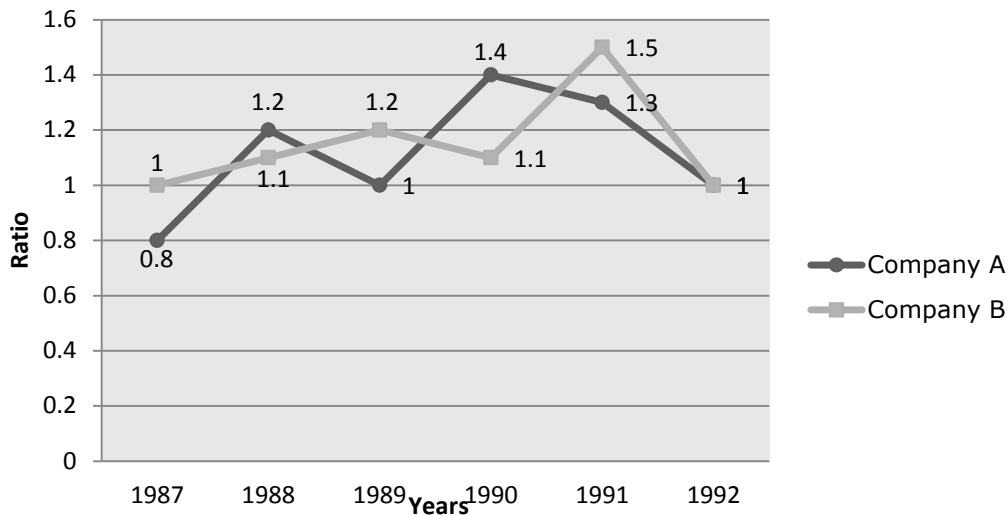
- 6) Expenditure of company B in the years 1996 & 1997 is 12 lakhs and 14.5 lakhs respectively. What was total profit of company B in the year 1996 & 1997?  
 (A) 11.45      (B) 37.95      (C) 38.75      (D) 38.50      (E) None of these
- 7) Ratio of expenditure of company A & B in the year 1999 is  $\frac{3}{4}$ . What was their ratio of income in the year 1999?  
 (A) 21:26      (B) 39:56      (C) 14:13      (D) 26:21      (E) None of these
- 8) Total expenditure of company A in the all given years was 82.5 lakhs than what was the total income of company A in given years?  
 (A) 123 crores      (B) 93.75 crores  
 (C) 99.85 crores      (D) cannot be determined      (E) None of these
- 9) Expenditure of company A & B in the year 2000 is equal & income of these two companies is 5.7 lakhs, then what was the total expenditure of these two companies?  
 (A) 4 lakhs      (B) 2 lakhs  
 (C) 4.2 lakhs      (D) Cannot be determined      (E) None of these
- 10) Ratio of income of company B in the year 1997 and 1999 is 2:3 then what was the ratio of expenditure of the company in these two years?  
 (A) 20:29      (B) 9:10      (C) 28:45      (D) 10:29      (E) None of these

**Answers:**

6	A	7	B	8	D	9	A	10	C
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**Directions (Ex. 11 to Ex. 15)** Study the following Line-graph carefully to answer the questions that follow;

**Ratio of Imports and Exports of two companies over the years**



- 11) In how many of the given years were the imports more than the exports of company Q?  
 (A) 1                      (B) 2                      (C) 3                      (D) 4                      (E) None of these
- 12) What were the average exports of company Q over the given years?  
 (A) 100 crores                      (B) 70 crores  
 (C) 60 crores                      (D) Data inadequate                      (E) None of these
- 13) If the total exports of company Q in 1989 and 1990 together were 24 crores, what were the total imports of the same company in these two years together?  
 (A) 28.8 crores                      (B) 20 crores  
 (C) 32 crores                      (D) Data inadequate                      (E) None of these
- 14) The exports of company P with relation to imports were maximum in which of the following years among the given years?  
 (A) 1988                      (B) 1989                      (C) 1987`                      (D) 1992                      (E) None of these
- 15) If the exports of company P in 1990 were 60 crores, what were the imports of this company in the same year?  
 (A) 62 crores                      (B) 68 crores                      (C) 84 crores                      (D) 88 crores                      (E) None of these

**Answers:**

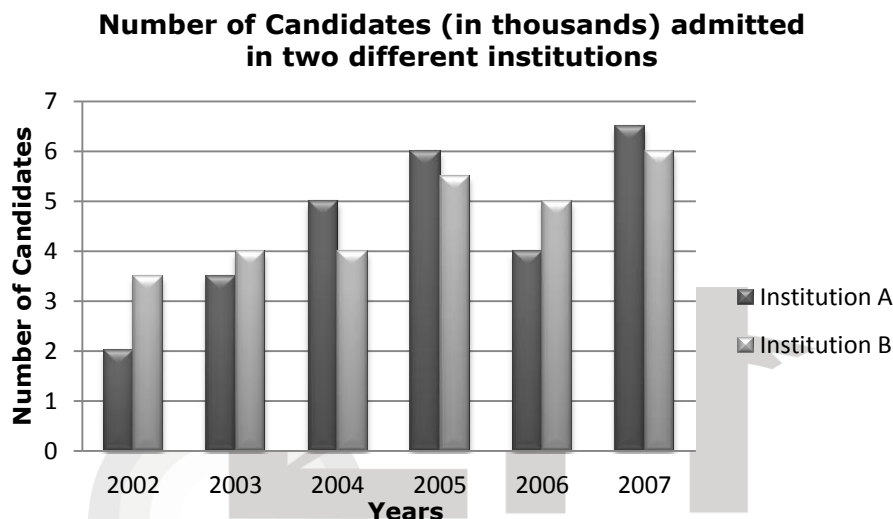
11	D	12	D	13	A	14	C	15	C
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## !!! BAR-GRAPHS !!!

This section comprises of questions in which the data collected in a particular discipline are represented in the form of bars drawn with one parameter plotted on the horizontal axis and the other on the vertical axis. The candidate is required to understand the given information and thereafter answer the given questions on the basis of data analysis.

### SOLVED EXAMPLES

**Directions (Ex. 1 to Ex. 5)** Study the following graph carefully to answer the questions that follow;



**Ex-1** In which year was the total number of candidates admitted in both the institutions together the second lowest?

- (A) 2003      (B) 2002      (C) 2005      (D) 2006      (E) 2007

**Ex-2** What was the total number of candidates admitted in Institution B over all the years together?

- (A) 25,000      (B) 2,600      (C) 26,000      (D) 2,800      (E) None of these

**Ex-3** Total number of candidates admitted in institution A over all the years together was approximately what percentage of the total number of candidates admitted in institution B over all the years together?

- (A) 85      (B) 106      (C) 110      (D) 81      (E) 96

**Ex-4** What was the difference between the total numbers of candidates admitted in institution A in the year 2004 and 2007 together and the total number of candidates admitted in institution B in the year 2003 and 2007?

- (A) 2,250      (B) 1,650      (C) 2,500      (D) 1,500      (E) None of these

**Ex-5** What was the respective ratio between the numbers of candidates admitted in institution A in the year 2006 and the total number of candidates admitted in both the institutions together in the year 2004?

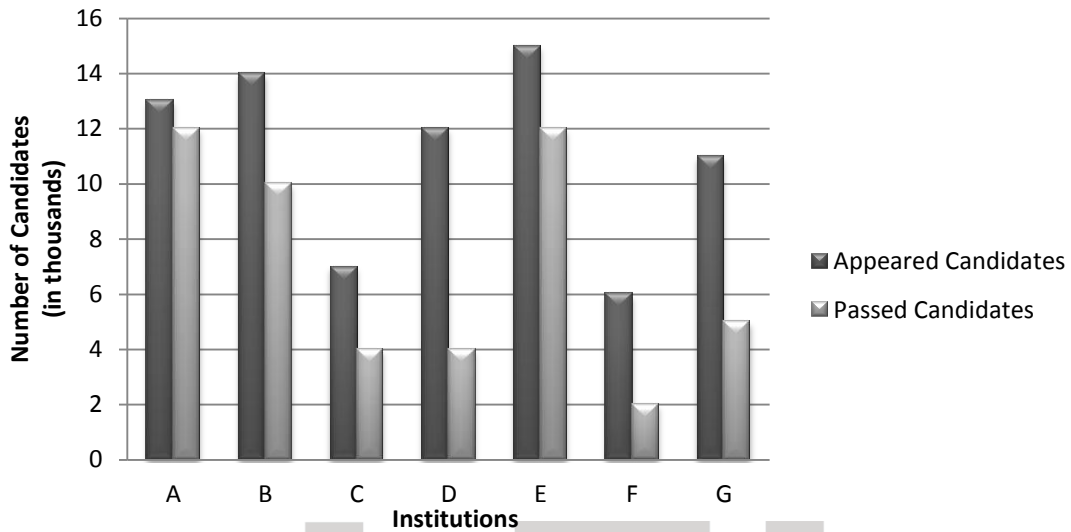
- (A) 9:5      (B) 4:9      (C) 3:8      (D) 4:5      (E) None of these

**Answers:**

1	A	2	D	3	E	4	D	5	B
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**Directions (Ex. 6 to Ex. 10)** Study the following graph carefully to answer the questions that follow;

**Number of appeared candidates and passed candidates (in thousands)  
in a test from seven different institutions**



**Ex-6** What is the difference between the numbers of candidates appeared from institutions B, C, D and F together and candidates passed from institutions A, E and G together?

- (A) 100      (B) 900      (C) 1000      (D) 540      (E) None of these

**Ex-7** What is the number of candidates passed from all the institutions together?

- (A) 700      (B) 490      (C) 350      (D) 675      (E) None of these

**Ex-8** The number of candidates passed from institutions C and E together is approximately what percentage of the total number of candidates appeared from institutions A and G together?

- (A) 72      (B) 62      (C) 54      (D) 75      (E) 67

**Ex-9** From which institutions is the difference between the appeared candidates and passed candidates the maximum?

- (A) B      (B) G      (C) D      (D) F      (E) None of these

**Ex-10** What is the ratio of the number of candidates who have failed from institution B to the number of candidates who have appeared from institutions F?

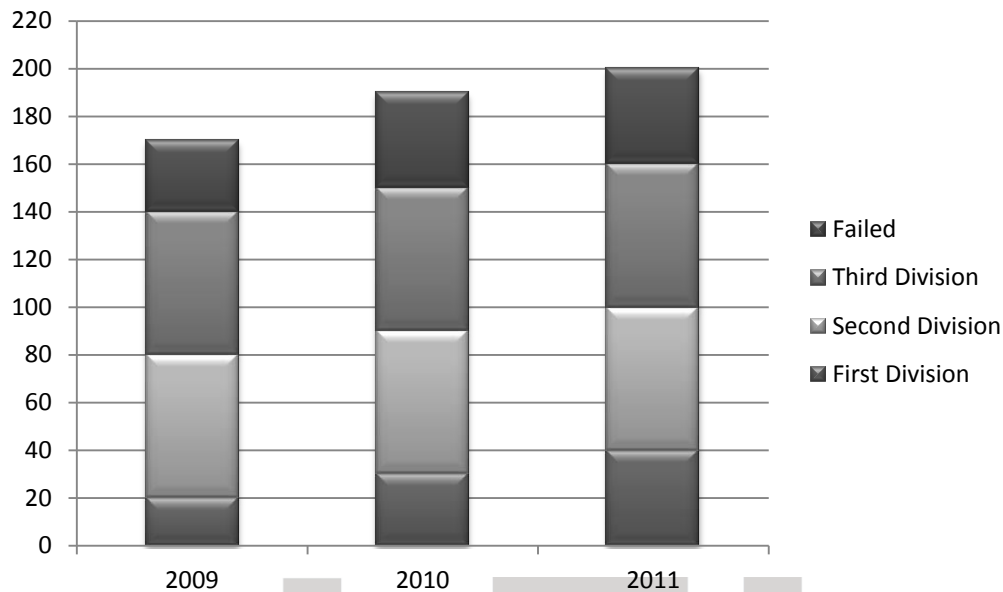
- (A) 2:5      (B) 2:3      (C) 4:3      (D) 1:3      (E) None of these

**Answers:**

6	C	7	A	8	E	9	C	10	B
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**Directions (Ex. 11 to Ex. 15)** Study the following sub-dividing diagram depicts the result of BBA students of a college for three years;



**Ex-11** How many percent passed in first division in 2009?  
 (A) 20 (B) 34 (C) 14.28 (D) 11.76 (E) None of these

**Ex-12** What was the pass percentage in 2009?  
 (A) 65 (B) 70 (C) 74.6 (D) 82.3 (E) None of these

**Ex-13** In which year, the college had the best result for BBA?  
 (A) 2009 (B) 2010 (C) 2011 (D) Cannot say (E) None of these

**Ex-14** What is the number of third divisioners in 2011?  
 (A) 160 (B) 70 (C) 60 (D) 65 (E) None of these

**Ex-15** What is the percentage of students in 2011 over 2009?  
 (A) 30 (B) 17.6 (C) 117.6 (D) 85 (E) None of these

**Ex-16** What is the aggregate pass percentage during three years?  
 (A) 51.6 (B) 80.3 (C) 82.5 (D) 77.6 (E) None of these

**Answers:**

11	D	12	D	13	C	14	C	15	C	16	B
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