Tabulation

given below table show the investment (in million) in PSUs. Study the table given below to answer these

| | PSUs Name | Investment | |
|-----|-----------|----------------------|---------------|
| Vo. | | 20/11/2018 | 20/11/2019 |
| 9 | SAIL | 5,980 | 6,578 = +660 |
| | CIL | 4,700 | 5,900 = +1200 |
| • | | 3,000 12000 = 404 | 4,300 = +1300 |
| | | 2,400 | 3,000 = +60 0 |
| | | 1,525 Web 1500 man | 1,850 = +325 |
| | | 933 | 1,244 ~+310 |
| | | 18,538 | 22,872) ≈+400 |
| | . (| NTPC ONGC HPCL | CIL 4,700 |

TOU fell yet 20000 word 0 November 2019, was the least in the case of

A) NTC

B) HPCL

D) ONGC

2) The percentage increase in investment was nearly equal in the case of

A) CIL & ONGC

B) CIL & SAIL

C) SAIL & NTC

D) ONGC & NTPC

25% 1

(28538) AX 9, = 4000

lekin Keli

Toll-aus

20-1. 1

Be zxada howilay

21%.7 33-34-7 mattab

3) The increase in investment in NTPC was more than twice to that in

B) CIL

_C/HPCL

A) NTC 4) As compared to the investment for the year ending 20 November 2018, the total investment in all the six enterprises for the year ending 20 November 2019 exceeded approximately by

A) 15%

B) 18%

C) 20%

112 2) In a survey, 300 respondents were asked whether they own a vehicle or net. If yes, they were further asked to mention whether they own a car or scooter or both. Their responses are tabulated below. What percent of respondents do not own a scooter? [GATE 2014, 2 MARKS (EE)]

| | | Men | Woman |
|-----------|-----------|------|-------|
| | Car | (40) | 34 |
| Own | Scooter | 30 | 20 |
| vehicle | Both | 60 | 46 |
| Do not ow | n vehicle | 20 | 50 |

Ans:

200+100% 250+50% $6 \rightarrow 2\%$

= (48%)

ESE / GATE / PSUs Short e-Lecture

3) The data given in the following table summarizes the monthly budget of an average household GATE]

| Category | Amount(₹) |
|----------|-------------|
| Food | 4000 |
| Clothing | 1200 |
| Rent | 2000 |
| Savings | 1500 |
| Other | 1800 |
| expenses | Total 20500 |

The approximate percentage of the monthly budget NOT spent on saving is

(A) 10%

(B) 14%

(C) 81%

Total (20500)

ESE / GATE / PSUs Shores Doctures 500

anottab tosoo Ka Katua %. 9000 has??

Agai 20000 Balany rote Tourans 90%. hota lekur 20000 nai Tourans 90%, le halker Kam hoga.

4) Mola is a digital platform for taxis in a city. It offers three types of rides-Pool, Mini and Prime. The table below presents the number of rides for the past four months. The platform earns one US dollar per ride. What is the percentage share of revenue contributed by Prime to the total revenues of Mola, for the entire duration? [GATE 2019]

| Туре | Month | | | | |
|-------|---------|----------|-------|-------|-------|
| | January | February | March | April | |
| Pool | 170 | 320 | 215 _ | | |
| Mini | 110 | 220 | | 190 | +) 89 |
| Prime | 75 | | 180 | 70 | 3 58 |
| | 10 | 180 | 120 | 90 | 3 465 |

A) 16.24

B) 23.97

C) 25.86

D) 38.74

ESE / GATE / PSUs Short e-Lecture

Anys 465 × 200%.

(But and 25%. St Kam (But and 25%. St Kam houch charryl) kynnh 500 so Kam trai

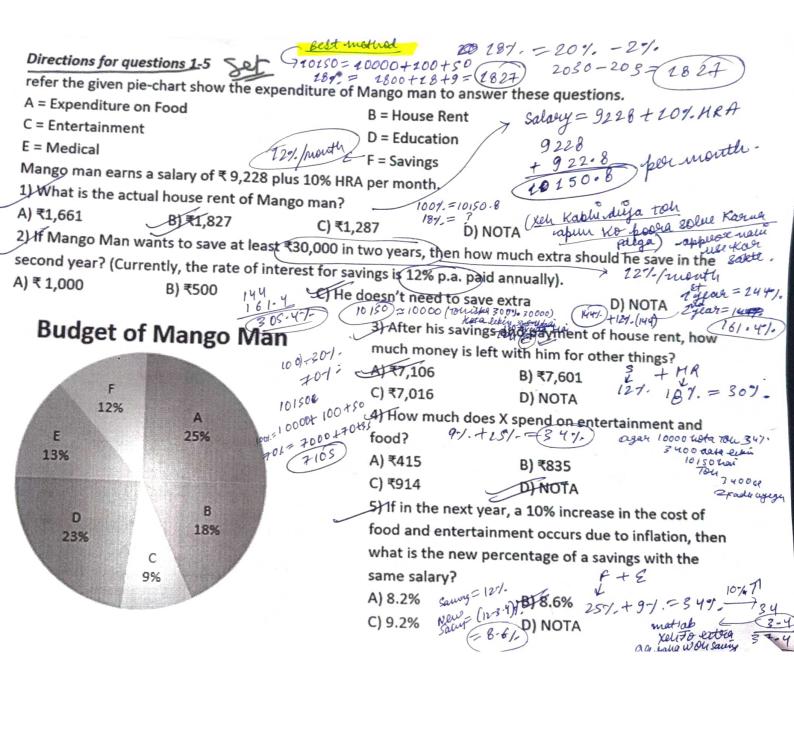
1940

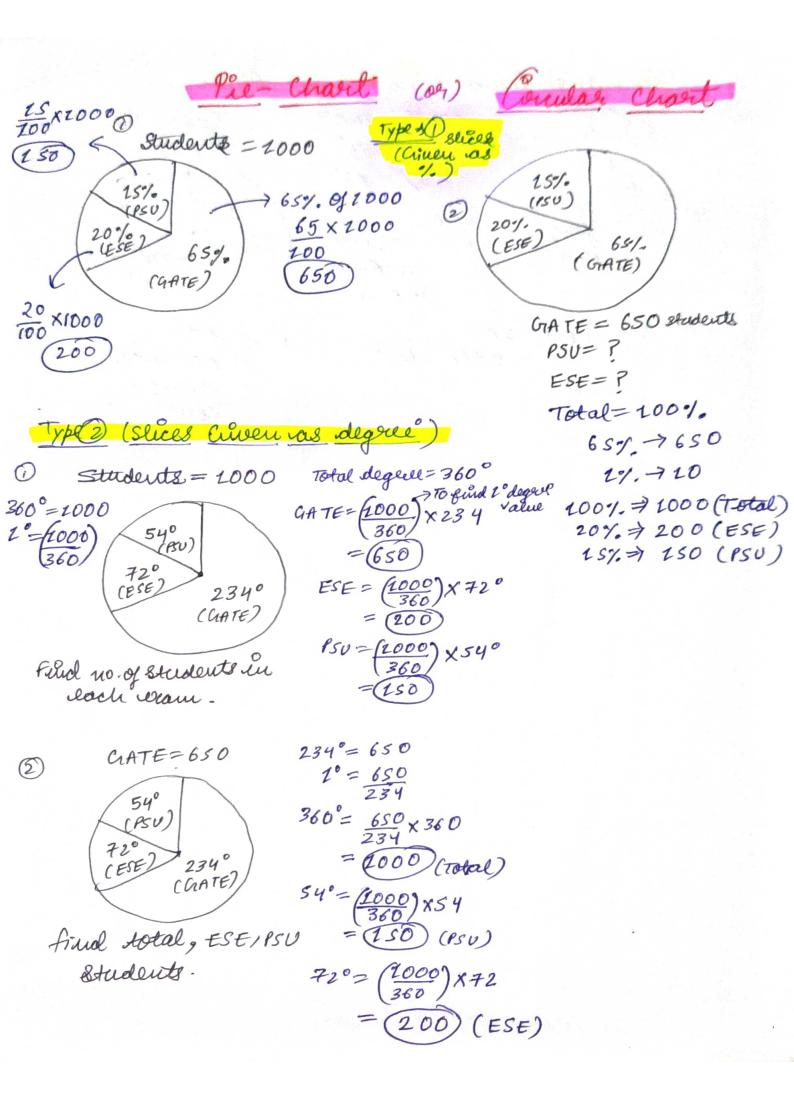
5\A shaving set company sells 4 different types of razors Elegance, Smooth, Soft and Executive. Elegance sells at ₹48, Smooth at ₹63, Soft at ₹78 and Executive at ₹173 per piece. The table below shows the numbers of each razor sold in each quarter of a year.

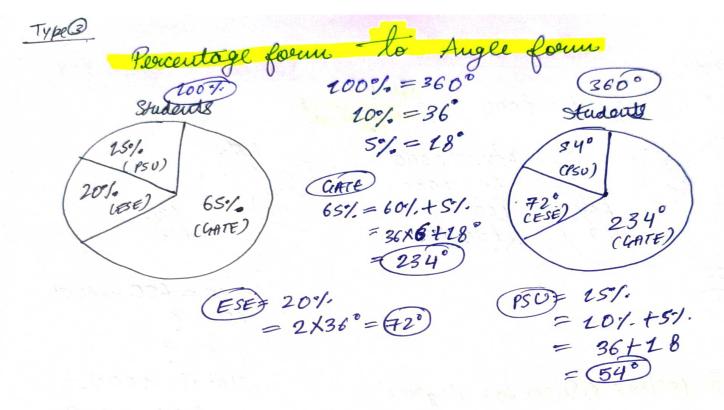
| Quarter/Product | Elegance | Smooth | Soft | Executive |
|-----------------|----------|--------|-------|----------------|
| | 27300 | 20009 | 17602 | 9999 |
| Q1 | + 25222 | 19392 | 18445 | 8942 |
| Q2 | | 22429 | 19544 | 10234 |
| Q3 | 28976 | | 16595 | 10109 |
| Q4 | +(21012 | 18229 | | win that year? |

Which product contributes the greatest fraction to the revenue of the company in that year?

| Which product co | ntributes the greatest | , maction to the revent | [GATE-2016, | 2 MARKS (CS, CE)] |
|------------------|------------------------|-------------------------|-------------|-------------------|
| A) Elegance | B) Executive | C) Smooth | D) Soft | |
| | 1 | ESEV SORTE / PSU | 5 70K | 59K |
| | 77 . 101 KT | Shox 6-3 ecture | ×78 | ×173 |
| | = | = | = | |
| ab Isl sabb | o + Karenge Ton | calculation Ball | et dampi ho | Tayegi MODE |
| Ton la | pan & me a | ssuul Kar Leng | ze · | 10+ |
| | | 20K | 27K | 95 |
| | 27 K 25 K | 19 K | 28 K | 20K |
| | 28K | 22K | 29 K | 10 K |
| | 21K | 18K | 16K | (39x+) |
| | (102K+) Cureotlab | (80K+) | (FOK+) | (33/1) |







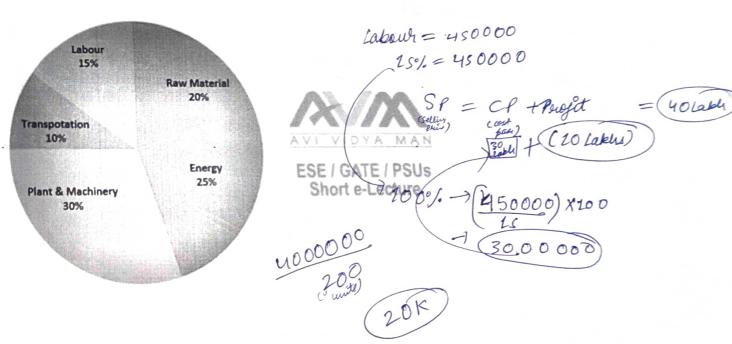
<u>Direction for questions 1-5:</u> Refer to the pie chart given below and answer the questions that follow.

The given pie chart shows the marks scored by a student in different subjects-Aptitude, Mathematics, FM, Network and Digital in an examination. The values given are in degrees.

Assumption: Total marks obtained in the examination are 900. (I) wethered Aptitude wanaportion 1) If the total marks were 3000, then marks in (4) Hy part hai Oli Aptitude would be 100 3000 1 750 C) 850 A) 800 B) 750 2) The Marks scored in Aptitude and Mathematics is less than the marks scored in FM and Network by Digital **Aptitude** 90 B) 4.33% S/3.33% D) 4.6% **個** Aptitude ■ Mathematic 3) If the marks scored by the student are # FM 137.5, then the subject is Network ■ Network **Mathematic B** Mathematics A) Aptitude (96°) 80 m Digital 55 D) Network (80°) C) FM (70") 4) Total marks scored in Mathematics and 70 7900 1+Dd SS+65-7120° Digital is 900 X120 C) 500 - 300 B) 350 5) The difference of marks scored in Digital and Network is 80 D) 15 A) 37.5 B) 40 C) 20

firm producing air purifiers sold 200 units in 2012. The following pie chart present the share of raw material, labour, energy, plant & machinery and transportation costs in the total manufacturing cost of the firm in 2012. The expenditure on abour in 2012 is ₹450000. In 2013, the raw material expenses increased by 30% and all other expenses increased by 20%. If the company registered a profit of ₹ 10 lakhs in 2012, at what price (in ₹) was each air purifier sold?

[GATE 2014, 2 MARKS (ME, EC)]

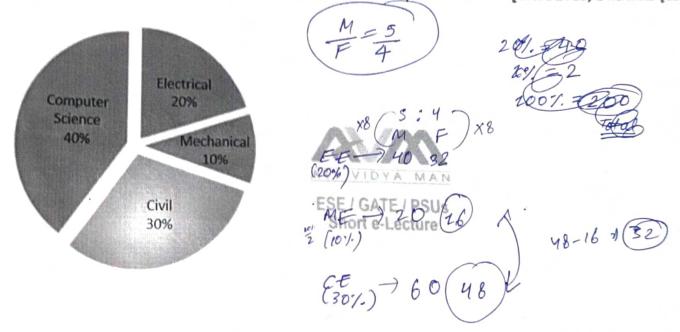


The pie chart for exports shows the quality of each item exported as a percentage of the total quantity of exports. The pie chart for the revenues shows the percentage of the total revenue generated through export of each item. The total quantity of exports of all the item is 500 thousand tonnes and the total revenues are 250 crore rupees. Which item among the following has generated the maximum revenue per

| revenues are 250 cro | re rupees. Which | item among the followi | ng has generated the maximum revenue per |
|-----------------------------|------------------|------------------------|---|
| | | | [GATE 2014, 2 MARKS (ME, EC)] |
| kg? A) Item 2 | B) Item 3 | C) Item 6 | Diftem 5 |
| Exports | | Revenues | Itan (2) |
| Item 6 Item 1 16% Item 1 | | Item 6 19% Item 1 12% | Quantity of \$500 x20=200 |
| Item 5 Item 2 20% | | Item 2 20% | Revenuer of 250 x20 = 50 |
| Item 4 Item 3 22% 19% | | Item 3 Item 4 23% | R (250) (20) Stemb |
| | | | Q 500 ×20 - 1 (100) \$45 |
| | | | IZ (F) (F) (outet) |
| | | 20 | $\frac{23}{19} \frac{19}{16} \frac{20}{12}$ |
| | | / | 1.1 1.18 1.66 |

4) The pie chart has the breakup of the number of students from different departments in an engineering college for the year 2012. The proportion of male to female students in each department is 5:4. There are 40 males in Electrical Engineering. What is the difference between the numbers of female students in civil department and the female students in the Mechanical department?

[GATE 2015, 2 MARKS (CS, EE)]



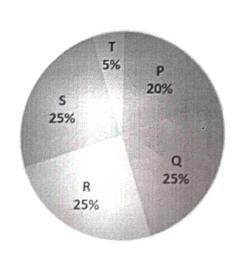
firm has employees at five different skill levels P, Q, R, S, T. The shares of employment at these skill levels of total employment in 2010 is given in the pie chart as shown. There were a total of 600 employees in 2010 and the total employment increased by 15% from 2010 to 2016. The total employment at skill levels P, Q and R remained unchanged during this period. If the employment at skill level S increased by 40% from 2010 to 2016, how many employees were there at skill level T in 2016? [GATE]

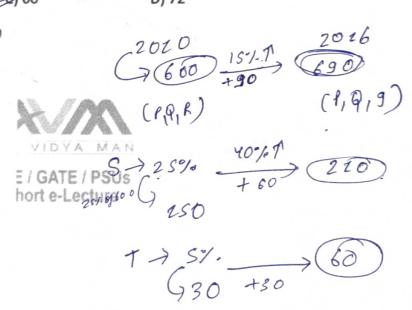
A) 30

B) 35

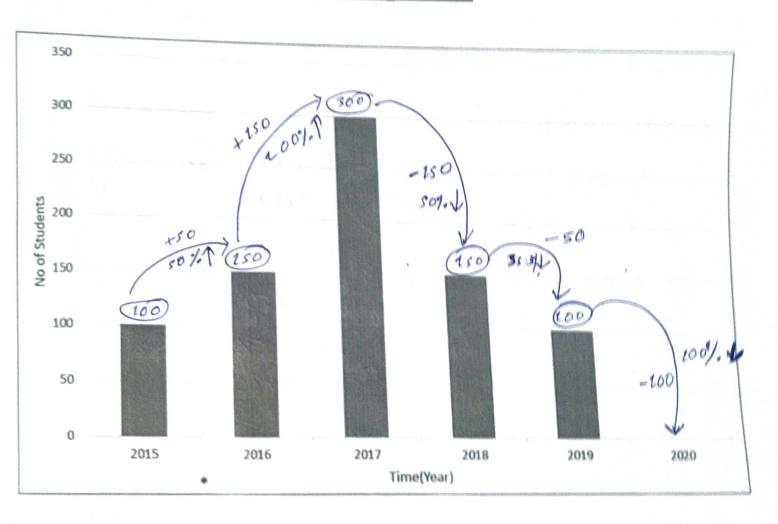
D) 72

PERCENTAGE SHARE OF SKILLS IN 2010

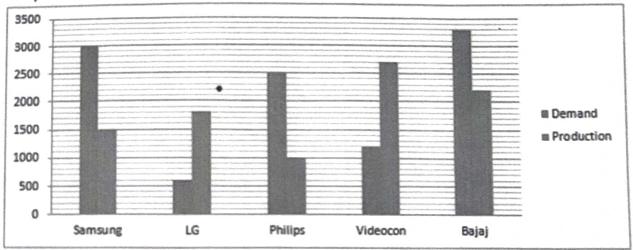




Bar Diagram



These question based on the graph which show the demand and production statistics of the five companies.



1) What is the ratio of the companies having more demand than production to those having more production than demand?

- A) 2:3
- B) 4:1
- C) 2:2
- D) 3:2

2) What is the different between the average demand and the average production of five companies taken together?

- A) 1400
- B) 400
- C) 280
- D) 138

3) The production of the Videocon is how many times of the production of the Samsung?

- A) 1.8
- B) 1.5
- C) 2.5
- D) 1.11

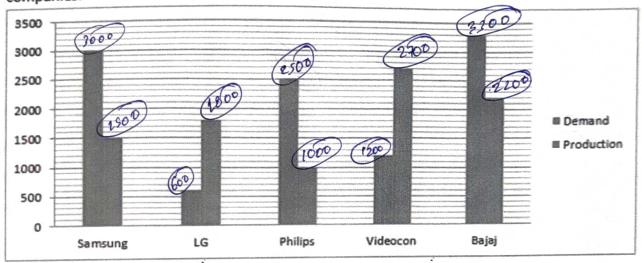
4) The demand of LG is what percentage of the demand of Philips?

- A) 4
- B) 24
- C) 20
- D) 60

5) If Samsung desire to meet the demand by procuring TV sets from a single company, then which one of the following can meet the need adequately?

- A) LG
- B) Philips
- C) Videocon
- D) NOTA

These question based on the graph which show the demand and production statistics of the five companies.



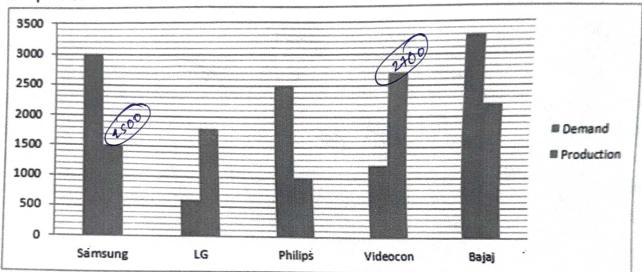
2) What is the different between the average demand and the average production of five companies taken together?

$$\frac{\left(\frac{D_{1}+D_{2}+D_{3}+D_{4}+D_{5}}{5}\right)-\left(\frac{P_{1}+P_{2}+P_{3}+P_{4}+P_{5}}{5}\right)}{5}$$

$$\frac{\left(D_{1}-P_{1}\right)+\left(D_{2}-P_{2}\right)+\left(D_{2}-P_{3}\right)+\left(D_{4}-P_{4}\right)+\left(D_{5}-P_{5}\right)}{5}$$

$$\frac{1500 - 1200 + 1500 - 1500 + 1200}{5} = \frac{1400}{5} = \frac{280}{5}$$

These question based on the graph which show the demand and production statistics of the five companies.

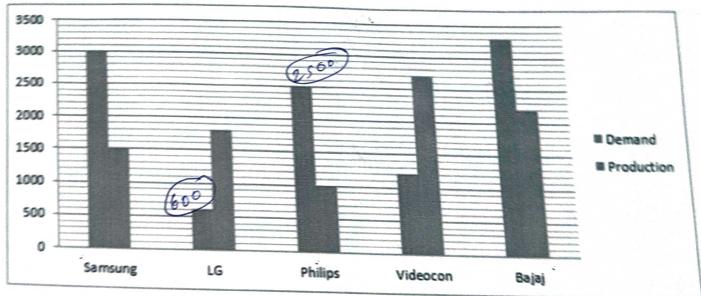


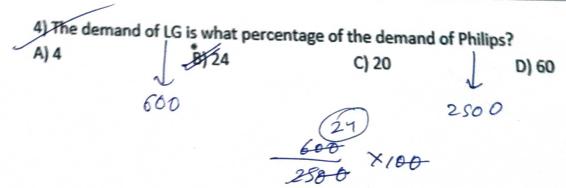
3) The production of the Videocon is how many times of the production of the Samsung?

B) 1.5 $\frac{2700}{1500} = \frac{9}{5} = \frac{1.8}{1.8}$

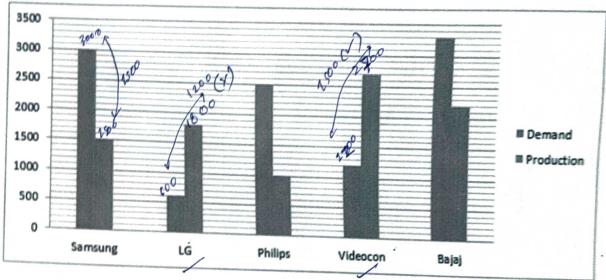
D) 1.11

These question based on the graph which show the demand and production statistics of the five companies.





These question based on the graph which show the demand and production statistics of the five companies.



5) If Samsung desire to meet the demand by procuring TV sets from a single company, then which one of the following can meet the need adequately?

A) LG

B) Philips

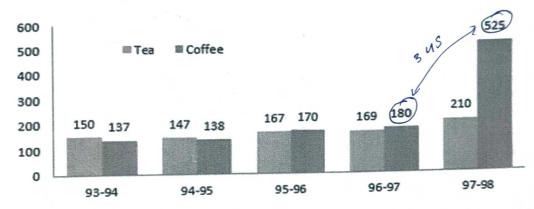
e) Videocon

D) NOTA

Direction for question 1 and 2:

[ONGC 2014]

Study of following bar graph carefully and answer the questions given below.



1) By what approximate percentage the export of the coffee increased from 1996-97 to 1997-98?

B) 200%

C) 205%

D) 195%

345 ×100 180 =191-66%

2) Find the ratio of the export of coffee in 1994-95 to that in 1996-97?
A) 69:85
B) 23:30
C) 85:69
D) 3

B) 23:30

D) 30:23

$$\frac{138}{180} = \frac{69}{90} = \frac{23}{20}$$

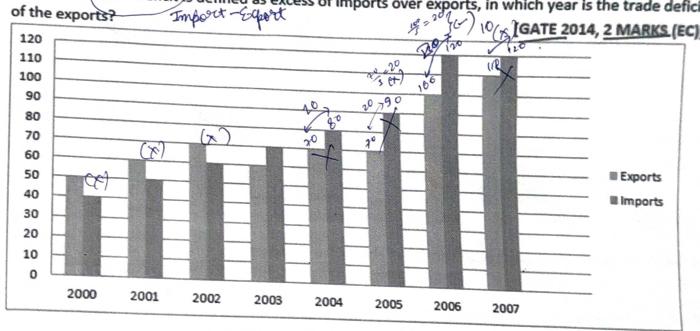
3) he exports and imports (in crore of ₹) of a country from 2000 to 2007 are given in the following bar chart. If the trade deficit is defined as excess of imports over exports, in which year is the trade deficit 1/5th of the exports?

The trade deficit is defined as excess of imports over exports, in which year is the trade deficit 1/5th of the exports?

The trade deficit is defined as excess of imports over exports, in which year is the trade deficit 1/5th of the exports?

The trade deficit is defined as excess of imports over exports, in which year is the trade deficit 1/5th of the exports?

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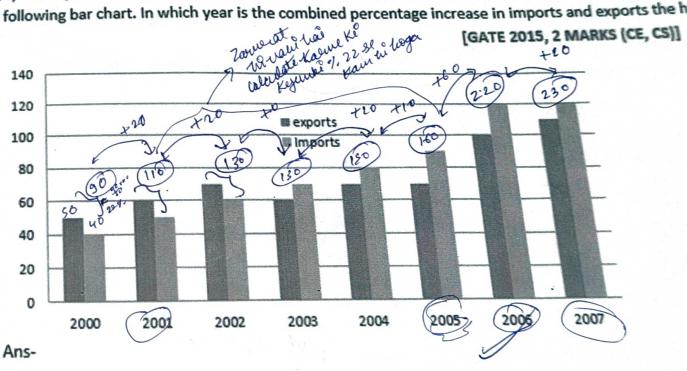
A) 2005

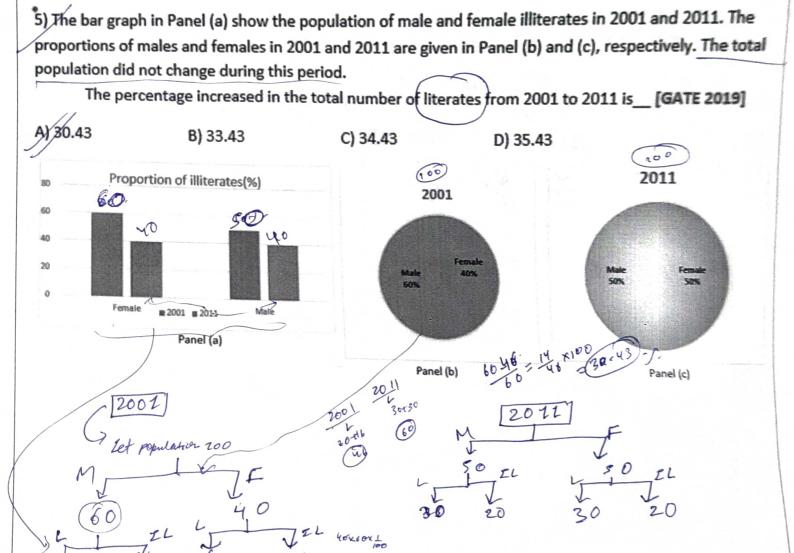
Totale deficit = Duport - Export = 1 Export

Import = 6 Export

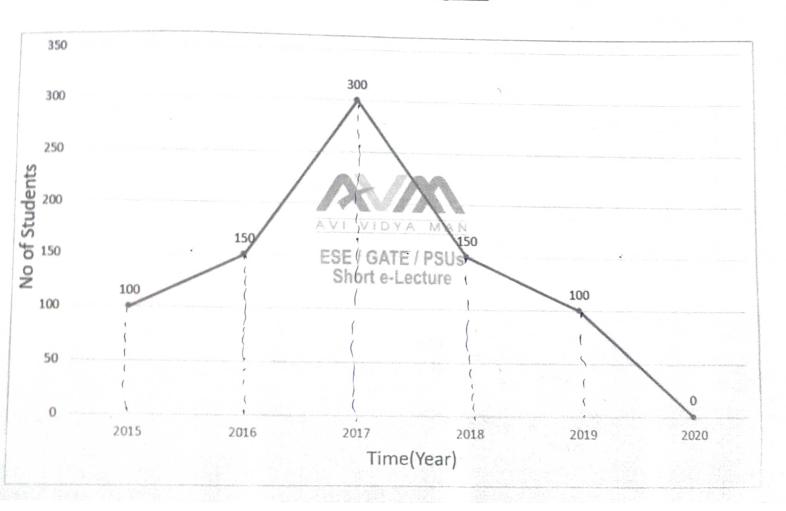
(Emport Eda Kei Export so)

The exports and imports (in crores of ₹) of a country from the year 2000 to 2007 are given in the following bar chart. In which year is the combined percentage increase in imports and exports the highest?



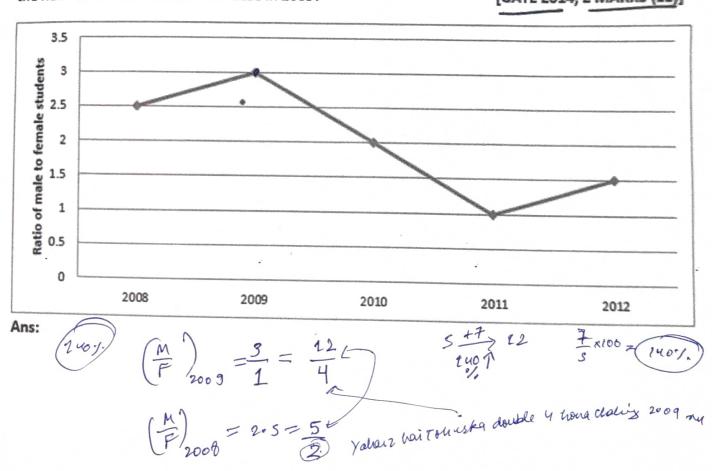


Line Graph



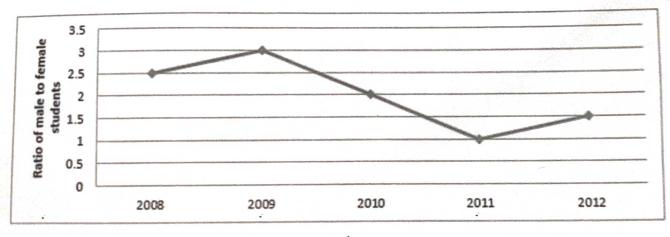
The ratio of male to female students in a college for five years in plotted in the following line graph. If the number of female students doubled in 2009, by what percent did the number of male students increase in 2009?

[GATE 2014, 2 MARKS (EE)]



The ratio of male to female students in a college for five years in plotted in the following line graph. If the number of female students in 2011 and 2012 is equal. What is the ratio of male students in 2012 to male students in 2011?

[GATE 2014, 2 MARKS (EE)]



A) 1:1

B) 2:1

2:1

2002

$$\left(\frac{M}{F}\right)_{2011} = 1 = \frac{1}{1} = \frac{2}{2}$$

 $\left(\frac{M}{F}\right)_{2012} = 1.S = \frac{3}{(Z)}$ equal

D) 2.5:1