



## SBI PO 3 July 2016 Shift 1

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# English

## Instructions

Rearrange the given six sentences/group of sentences (A), (B), (C), (D), (E) and (F) in a proper sequence, so as to form a meaningful paragraph and then answer the given questions.

- A. Apart from these, the care provided in these facilities is also not up to the mark.
- B. For instance, in 2015, there was one government hospital bed for every 1,833 people compared with 2,336 persons in decade earlier which is a good sign.
- C. India has made strides in the expansion of public services.
- D. For example, six out of every ten hospitals in the less developed States did not provide intensive care and a quarter of them struggled with issues like sanitation and drainage.
- E. For instance, there is one government hospital bed for every 614 people in Goa compared with one every 8,789 people in Bihar.
- F. However, as Lancet points out, this availability of beds has been inequitably distributed within the country.

## Question 1

Which of the following should be the FIRST sentence after rearrangement ?

- A A
- B C
- C B
- D F
- E E

Answer: B

## Question 2

Which of the following should be the FIFTH sentence after rearrangement ?

- A A
- B D
- C E
- D F
- E C

Answer: B

## Question 3

Which of the following should be the SECOND sentence after rearrangement ?

- A A
- B B
- C F
- D D
- E E

Answer: B

#### Question 4

Which of the following should be the FOURTH sentence after rearrangement ?

- A E
- B B
- C C
- D F
- E D

Answer: A

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#### Question 5

Which of the following should be the SIXTH (LAST) sentence after rearrangement ?

- A C
- B B
- C A
- D D
- E F

Answer: C

#### Instructions

Read the following passage carefully and answer the questions. Certain words/phrases are given in bold to help you locate them while answering some of the questions. Most of the declarations of the Fourth World Conference on Women in Beijing in 1995 have **faded** from memory. But the linkage made there between women's rights and poverty and the assumption that discrimination actually impedes progress-has survived. Since then the promotion of equal rights has become a central economic priority for international aid agencies. The World Bank has declared the enfranchisement of women. the single most important issue for effective development. A sweeping statement, perhaps, but since 1805 the bank has lent billions of dollars on programmes that encourage, girls' education, better maternal health and on micro-credit initiatives that funnel money directly into the hands of women. This is a substantial sum dedicated to women. If not, most developing countries, women produce more food than men and bear primary responsibility for feeding, sheltering and educating the young. But lack of education coupled with social customs which treat women as secondclass citizens restrict their participation in the economy. The figures are starting. Globally those women who do work are concentrated at the bottom end of the labour market and receive far less pay. A significant proportion of the world's illiterate are women and women account for half of all refugees. Anything that helps women catch up with men should be welcomed on grounds of equity alone. But **fairer** treatment of women is also one of the most effective ways to improve an economy's efficiency as well. It is widely recognised educating more women in developing countries and specifically making education available to men and women equally is likely to raise the productive potential of an economy significantly. As education levels rise, so do household incomes. In Sub-Saharan Africa, for instance, 70% of young children whose mothers have secondary information receive their vaccinations, as opposed to just 30% of those whose mothers have no formal schooling at all. A cross-country analysis concluded that gains in women's education made the single largest contribution to declines in malnutrition in 13 countries between 1970 and 1995. Some researchers reckon that, if female farmers in places like Cameroon or Kenya were afforded the same schooling and other opportunities as male farmers, crop yields would rise quite hefty. One economic analysis estimates that, if countries in South Asia, Africa and the Middle East had closed the gender gap in schooling at the same rate as East Asia after 1960. Income per head could have grown substantially over the actual growth rates achieved. But one country's gender bias is another's ancient tradition, entrenched in laws and institutions. Some South American Countries, like Bolivia and Guatemala restrict wives employment outside the home in South African nations like Botswana, women have no independent right to manage of own land but now girls are offered stipends for secondary education- a long standing programme now holstered by multilateral aid. Elsewhere in Africa in Ghana, peripatetic bankers act as lenders and financial advisors, often helping women as particular to set up small businesses. Part of the rationale for micro-finance (small icons) that **caters** to women is that some

studies have shown women tend to spend money more prudently on vital goods and services that benefit families, men often squander it. This finding may seem **implausible** to many men. Not many women would be surprised.

**Question 6**

**Which of the following is an appropriate title for the passage ?**

- A Enabling Asia- The Long Road Ahead
- B Catching Lip with Africa
- C Raising Children in the 21st Century
- D Poverty-A Matter of Geography ?
- E Gender Fairness Equals Economic Development

**Answer: E**

**Question 7**

**Which of the following is/are (a) hindrance(s) in the economic development of the countries mentioned in the passage ?**

- A. Time-honoured traditions in these countries
- B. Women's limited access to education
- C. Population explosion in the 1960s

- A Only (A)
- B Only (B)
- C All (A), (B) and (C)
- D Both (A) and (C)
- E Both (A) and (B)

**Answer: E**

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**Question 8**

**What do the statistics in the passage indicate ?**

- A The female infanticide rate in African countries has dropped significantly.
- B Maternal health and life expectancy of women has improved since 1995.
- C Education of mothers has improved health and immunisation in Sub-Saharan Africa.
- D Much of the World Bank aid for health has been utilised effectively.
- E Economic development in Africa is on the rise.

**Answer: B**

**Question 9**

**Which of the following best describes the author's opinion regarding international aid efforts ?**

- A These have been ineffective on account of rampant corruption in aided countries.

- B Aid will soon dry up as donors are facing economic troubles of their own.
- C Aid should be withdrawn from countries which do not promote equal opportunities.
- D The goals are unrealistic as many of aided countries are facing political conflicts.
- E These are generous but effectiveness is hampered by prevailing local factors.

**Answer: C**

**Question 10**

Choose the word/group of words which is most nearly the same in meaning as the word **FADED** given in bold as used in the passage.

- A Tainted
- B Disappeared
- C Darkened
- D Drooped
- E Deepened

**Answer: B**

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**Question 11**

Choose the word/group of words which is most nearly the same in meaning as the word **CATERS** given in bold as used in the passage.

- A Is cooked
- B Available
- C Subjects
- D Pampers
- E Plans

**Answer: D**

**Question 12**

Which of the following is true in the context of the passage ?

- A Women in Asia and Africa have access to primary but not higher education.
- B International conferences on gender equality have not resulted in any concrete aid and action.
- C There has been much focus on the issue of gender equality in the past two decades.
- D Over half the women in sub Saharan Africa are illiterate.
- E All of the given statements are true in the context of the passage.

**Answer: C**

**Question 13**

Choose the word which is most opposite in meaning to the word **FAIRER** given in bold as used in the passage.

- A Dimmer
- B Mysterious
- C Depressing
- D Biased
- E Dusty

**Answer:** D

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**Question 14**

Choose the word which is most opposite in meaning to the word **IMPLAUSIBLE** given in bold as used in the passage.

- A Questionable
- B Open
- C Hypocritical
- D Credible
- E Fake

**Answer:** D

**Question 15**

According to the passage, what can be said with regard to Africa ?

- A It is struggling to improve the situation with regard to discrimination against women.
- B While cultural attitudes are changing fast, gender equal policies lag behind.
- C Today there is parity between men and women in terms of property rights.
- D Micro-credit programmes here have not enjoyed the same success as they did in Asia.
- E None of the given options can be said.

**Answer:** A

**Instructions**

In these questions, the sentence has two blanks, each blank indicating that something has been omitted. Choose the set of words for the blanks which best fits the meaning of the sentence as a whole.

**Question 16**

There is no clear..... as to why so many companies start at the same time with broadly the ..... ideas.

- A signal, aloof
- B indication, same

- C explanation, related
- D clues, equal
- E prove, like

Answer: B

## SBI Clerk Free Mock Test (Latest Pattern)

### Question 17

Everything from our plastic water bottles and cosmetics to our non-stick frying pans,..... chemicals that .....in our bodies.

- A has, stays
- B contains, accumulate
- C produces, dissolves
- D have, dilute
- E comprises, harm

Answer: B

### Question 18

Doctors-in training..... a lot about the workings of the human body..... medical school and residency.

- A acquire, while
- B receives, throughout
- C study, for
- D trained, from
- E learn, during

Answer: E

### Question 19

There is a common .....that runs..... many of these ventures.

- A fiber, on
- B cord, by
- C wired, between
- D strand, next
- E thread, through

Answer: E

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Question 20

World economic growth, which was anyway ....., will be further dampened .....to Brexit.

- A stumbling, thank
- B groom, owing
- C low, as
- D sputtering, due
- E slowed, now

Answer: D

Instructions

In these questions, read the sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer. (Ignore the errors of punctuation, if any).

Question 21

The progress of the southwest monsoon (a) is relatively 'slow as it is (b) not getting a favourable system (c) for move forward. d: No error (e)

- A The progress of the southwest monsoon
- B is relatively 'slow as it is
- C not getting a favourable system
- D for move forward
- E No error

Answer: D

Question 22

Authorities have (a) derived requests (b) for private hospital care (c) to the accuse. (d) No error (e)

- A Authorities have
- B derived requests
- C for private hospital care
- D to the accuse
- E No error

Answer: D

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Question 23

The drive intended to creating (a) an awareness of (b) the perks of riding two wheelers (c) without a helmet. (d) No error e:

- A The drive intended to creating



- B an awareness of
- C the perks of riding two wheelers
- D without a helmet
- E No error

Answer: A

**Question 24**

Gold continued its rising streak (a) for the fourth straight session (b) to reclaim the (c) psychologically significant thirty thousand mark. (d) No error (e)

- A Gold continued its rising streak
- B for the fourth straight session
- C to reclaim the
- D psychologically significant thirty thousand mark
- E No error

Answer: A

**Question 25**

The system, which keeps (a) a record for personal and professional details (b) of all community members, (c) was hacked. (d) No error (e)

- A The system, which keeps
- B a record for personal and professional details
- C of all community members
- D was hacked
- E No error

Answer: A

**Instructions**

In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words/phrases are suggested, one of which fits the blank appropriately. Find out the appropriate word/phrase in each case.

Technology is the technical ...(1)... people use to ...(2)... their surroundings. It also means knowledge of using tools and machines to do tasks ...(3)... . We use technology to control the world in which we live. Technology is people using knowledge, tools, and systems to make their lives easier and better. People use technology to refine their ability to do work. ...(4)... technology, people communicates better. Technology allows them to make more and better products. Our buildings are better through the use of technology. We travel in more comfort and speed as a ...(5)... of technology. Yes, technology is everywhere and can make life better.

**Question 26**

(1)

- A data
- B manpower

- C sound
- D humans
- E means

**Answer: E**

**Question 27**

(2)

- A relate
- B capture
- C improve
- D grow
- E built

**Answer: C**

**Question 28**

(3)

- A locally
- B centrally
- C efficiently
- D deeply
- E vaguely

**Answer: C**

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**Question 29**

(4)

- A Through
- B Without
- C Since
- D Help
- E Although

**Answer: A**

**Question 30**

(5)

- A source
- B result
- C matter
- D precursor
- E fortune

Answer: B

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### Quant

#### Instructions

For the following questions answer them individually

#### Question 31

The cost price of item B is Rs. 150/- more than the cost price of item A. Item A was sold at a profit of 10% and item B was sold at a loss of 20%. If the respective ratio of selling prices of items A and B is 11 : 12, what is the cost price of item B?

- A Rs. 450/-
- B Rs. 420/-
- C Rs. 400/-
- D Rs. 350/-
- E Rs. 480/-

Answer: A

#### Explanation:

$$\text{CP of B} = \text{CP of A} + 150$$

$$\text{SP of A} = 1.10 \times \text{CP of A}$$

$$\text{SP of B} = 0.8 \times \text{CP of B} = 0.8 \times (\text{CP of A} + 150)$$

$$\text{SP of A} : \text{SP of B} = 11 : 12$$

$$1.10 \times \text{CP of A} : 0.8 \times (\text{CP of A} + 150) = 11 : 12$$

$$13.2 \times \text{CP of A} = 8.8 \times (\text{CP of A} + 150)$$

$$13.2 \times \text{CP of A} - 8.8 \times \text{CP of A} = 1320$$

$$4.4 \times \text{CP of A} = 1320$$

$$\text{CP of A} = 1320 / 4.4 = 300$$

$$\text{CP of B} = \text{Rs. } 450/-$$

Option A is the correct answer.

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#### Question 32

A vessel contains a mixture of milk and water in the respective ratio of 10 : 3. Twenty-six litre of this mixture was taken out and replaced with 8 litre of water. If the resultant respective ratio of milk and water in the mixture was 5 : 2, what was the initial quantity of mixture in the vessel ? (in litre)

- A 143
- B 182

C 169

D 156

E 130

**Answer: E**

**Explanation:**

Let quantity of Milk and water be M and W respectively.

$$M : W = 10 : 3$$

$$3M = 10W$$

In 26 litre of mixture

$$M = 26(10/13) = 20 \text{ litre and}$$

$$W = 26(3/13) = 6 \text{ litre}$$

8 litre of water is added.

Resulting ratio of M and W is

$$M - 20 : W - 6 + 8 = 5 : 2$$

$$2(M - 20) = 5(W + 2)$$

$$2M - 40 = 5W + 10$$

Multiplying all the terms by 2.

$$4M - 80 = 10W + 20$$

Replacing 10W with 3M.

$$4M - 80 = 3M + 20$$

$$M = 100$$

Hence W would be 30.

$$\text{Total quantity} = 100 + 30 = 130.$$

Option E is the correct answer.

**Instructions**

What approximate value will come in place of the question mark(?) in the given questions? (You are not expected to calculate the exact value)

**Question 33**

$$? \% \text{ of } 750.11 \times 34.90 + 6.995 = 3000$$

A 12

B 15

C 18

D 75

E 60

**Answer: A**

**Explanation:**

Round of the values to the nearest whole number.

Let the unknown percentage be x %.

$$x \% \text{ of } 750 \times 35 + 7 = 3000$$

$$\frac{x \times 750 \times 35}{100} = 2993$$

$$x \approx 12$$

Option A is the correct answer.

**Question 34**

$$815.002 + 29.98 - 53.998 + 3.01^{\{2\}} = ?$$

A 820

- B 880
- C 840
- D 800
- E 750

Answer: D

**Explanation:**

Round of the values to the nearest whole number.

$$815 + 30 - 54 + 3^2 = 815 + 30 - 54 + 9 = 800$$

Option D is the correct answer.

## SBI PO Free Mocks (Latest Pattern)

**Question 35**

$$40.1\% \text{ of } 360.2 - 59.98\% \text{ of } ? = 12$$

- A 220
- B 228
- C 300
- D 325
- E 200

Answer: A

**Explanation:**

Round of the values to the nearest whole number.

Let the unknown term be x.

$$40\% \text{ of } 360 - 60\% \text{ of } x = 12$$

$$144 - 60\% \text{ of } x = 12$$

$$60\% \text{ of } x = 144 - 12 = 132$$

$$x = (132 \times 100) / 60$$

$$x = 220$$

Option A is the correct answer

**Question 36**

$$96.894 + 33.002 + 15.02 \times 7.99 = ?$$

- A 180
- B 200
- C 250
- D 169
- E 170

Answer: C

**Explanation:**

Since approximate values are sufficient, round off the values to the nearest whole number.

$$97 + 33 + 15 \times 8 = 130 + 120 = 250$$

Option C is the correct answer.

**Question 37**

$$(42.11 \times 5.006) - \sqrt{7} \times 15.08 = ?$$

- A 250
- B 170
- C 45
- D 200
- E 125

**Answer: B**

**Explanation:**

Since it is sufficient to find the approximate value, round off the values.

$$42.11 \times 5.006 = 42 \times 5 \approx 210$$

$\sqrt{7}$  lies between 2 and 3. The actual value of  $\sqrt{7} = 2.645$ .

$$\sqrt{7} \times 15.008 = \sqrt{7} \times 15 \approx 39.$$

$$210 - 39 = 171$$

The nearest Option is Option B.

Hence Option B is the correct answer.

## SBI Clerk Free Mock Test (Latest Pattern)

**Instructions**

For the following questions answer them individually

**Question 38**

There are 6 consecutive odd numbers. The difference between the square of the average of the first three numbers and the square of the average of the last three numbers is 288. What is the last odd number ?

- A 31
- B 27
- C 29
- D 25
- E 33

**Answer: C**

**Explanation:**

Let the odd numbers be  $a, a+2, a+4, a+6, a+8$  and  $a+10$

Average of first 3 odd numbers =  $(a+2)$

Square of Average of first 3 odd numbers =  $(a+2)^2$

Average of last 3 odd numbers =  $(a+8)$

Square of Average of last 3 odd numbers =  $(a+8)^2$

$$[(a+8)^2] - [(a+2)^2] = 288$$

$$a^2 + 64 + 16a - a^2 - 4a - 4 = 288$$

$$60 + 12a = 288$$

$$12a = 228$$

$$a = 19$$

Last odd number =  $a+10 = 29$

Hence Option C is the correct answer.

**Question 39**

In a bag, there are 6 red balls and 9 green balls. Two balls are drawn at random, what is the probability that at least one of the balls drawn is red ?

- A 29/35
- B 7/15
- C 23/35
- D 2/5
- E 19/35

**Answer:** C

**Explanation:**

Probability that at least 1 ball is red = 1 - probability that none of them is red.

Probability that none if the two balls is red =  $(9/15)(8/14)$

Probability that at least 1 ball is red = 1 - probability that none of them is red. =  $1 - [(9/15)(8/14)] = (210-72)/210$

= 138/210

= 23/35

Option C is the correct answer.

**Instructions**

Refer to the bar graph and answer the given questions. Data related to the number of students enrolled for a vocational course in two institutes (A and B) during 5 years



**Question 40**

What is the difference between average number of students enrolled in institute A in 2009 and 2010 and that in institute B in 2011 and 2012 ?

- A 20
- B 40
- C 30
- D 10
- E 60

**Answer:** B

**Explanation:**

Number of students enrolled in institute A in 2009 and 2010 =  $170+270 = 440$

Average =  $440/2 = 220$

Number of students enrolled in institute B in 2011 and 2012 =  $160+200=360$

Average =  $360/2 = 180$

Difference between averages =  $220 - 180 = 40$   
Option B is the correct answer.

## SBI Clerk Previous Papers (Download PDF)

### Question 41

If the number of enrolled students in institute A in 2013 is 25% less than that in 2014, how many students were enrolled in Institute A in 2014 ?

- A 450
- B 480
- C 440
- D 460
- E 470

**Answer:** C

#### Explanation:

Number of students in Institute A in 2013 = 330.

Number of students in Institute A in 2013 = 75% of Number of students in Institute A in 2014

Let Number of students in Institute A in 2014 be  $x$

$$x = 330 \times 100 / 75$$

$$x = 440.$$

Option C is the correct answer.

### Question 42

In 2009, 65% of students enrolled in institute B were male. If the respective ratio between number of male students enrolled in institutes A and B in 2009 was 3 : 4, what was the number of male students enrolled in institute A in the same year ?

- A 111
- B 117
- C 123
- D 114
- E 105

**Answer:** B

#### Explanation:

Number of students enrolled in institute B in 2009 = 240

Number of male students in Institute B in 2009 = 65% of 240 =  $0.65 \times 240 = 156$

Ratio between number of male students in Institutes A and B in 2009 = 3 : 4

Let the number of male students in institute A be  $x$ .

$$x : 156 = 3 : 4$$

$$x = (3 \times 156) : 4$$

$$x = 3 \times 39$$

$$x = 117$$

Option B is the correct answer

### Question 43

Number of students enrolled in institute A in 2011 is what percent of that enrolled in institute B in the same year ?



- A 50.75%
- B 60.25%
- C 58.5%
- D 54.75%
- E 56.25%

**Answer:** E

**Explanation:**

Number of students enrolled in institute A in 2011 = 90  
 Number of students enrolled in institute B in 2011 = 160  
 Percentage =  $90/160 = 56.25\%$   
 Option E is the correct answer.

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**Question 44**

**Number of students enrolled in institute B decreased by what percent from 2010 to 2013 ?**

- A  $41 \frac{2}{3}$
- B  $36 \frac{2}{3}$
- C  $43 \frac{1}{3}$
- D  $29 \frac{1}{3}$
- E  $56/3$

**Answer:** A

**Explanation:**

Number of students enrolled in institute B in 2010 = 360  
 Number of students enrolled in institute B in 2013 = 210  
 Percentage change =  $(360-210)/360 = 150/360 = 41.666 = 41 \frac{2}{3}\%$   
 Option A is the correct answer.

**Instructions**

For the following questions answer them individually

**Question 45**

**A is thrice as efficient as B. A started working and after 4 days he was replaced by B. B then worked for 15 days and left. If A and B together finished 75% of the total work, in how many days B alone can finish the whole work ?**

- A 27
- B 45
- C 24
- D 36
- E 42

**Answer:** D

**Explanation:**

Rate of doing work by A and B is  $\frac{1}{A}$  and  $\frac{1}{B}$

$$\frac{1}{A} = \frac{3}{B}$$

In 4 days A would have completed  $\frac{4}{A}$  or  $\frac{12}{B}$  amount of work

In 15 days B would have completed  $\frac{15}{B}$  amount of work

Since total work done was 75%.

$$\frac{12}{B} + \frac{15}{B} = \frac{3}{4}$$

$$\frac{27}{B} = \frac{3}{4}$$

$$\frac{1}{B} = \frac{1}{36}$$

B alone would take 36 days to complete the work.

Option D is the correct answer.

**Question 46**

Raman invested P for 2 years in scheme A which offered 20% p.a. compound interest (compounded annually). He lent the interest earned from scheme A to Shubh, at the rate of 7.5% p.a. simple interest. If at the end of 2 years, Shubh gave Rs.3,036/- to Raman and thereby repaid the whole amount (actual loan + interest), what is the value of P ?

A Rs. 6,000/-

B Rs. 5,800/-

C Rs. 6,800/-

D Rs. 5,400/-

E Rs. 6,400/-

**Answer: A**

**Explanation:**

Let amount invested by Raman ( $P$ ) = Rs.  $100x$  at 20% interest for 2 years

$$\text{Compound interest earned} = P[(1 + \frac{r}{100})^T - 1]$$

$$= 100x[(1 + \frac{20}{100})^2 - 1]$$

$$= 100x[(\frac{6}{5})^2 - 1]$$

$$= 100x \times (\frac{36-25}{25})$$

$$= 100x \times \frac{11}{25} = \text{Rs. } 44x$$

Now, Raman lent Rs.  $44x$  to Shubh at 7.5% for 2 years

$$\text{Total amount under simple interest} = P + \frac{P \times r \times t}{100}$$

$$\Rightarrow 44x + \frac{44x \times 7.5 \times 2}{100} = 3036$$

$$\Rightarrow 44x(1 + \frac{15}{100}) = 3036$$

$$\Rightarrow 44x \times \frac{115}{100} = 3036$$

$$\Rightarrow x = 3036 \times \frac{100}{115 \times 44} = 60$$

$$\therefore \text{Value of } P = 100 \times 60 = \text{Rs. } 6,000$$

$\Rightarrow$  Ans - (A)

**Instructions**

Study the following table carefully and answer the questions.

Coaching Institute	Total Number of students who have enrolled for coaching institute	Percentage of students who have enrolled for the given coaching institute from different schools			
		P	Q	R	S
A	80	25	20	15	40
B	100	24	33	21	22
C	200	32	20	17	31
D	250	20	10	20	50

**Question 47**

What is the respective ratio between the total number of students who have enrolled for coaching institutes A and C together from school P and the total number of students who have enrolled for the same coaching institutes together from school Q ?

- A 9 : 4
- B 3 : 1
- C 6 : 5
- D 3 : 2
- E 7 : 2

**Answer: D**

**Explanation:**

Number of students in Institute A from School P = 25% of 80 = 20

Number of students in Institute C from School P = 32% of 200 = 64

Total = 20 + 64 = 84

Number of students in Institute A from School Q = 20% of 80 = 16

Number of students in Institute C from School Q = 20% of 200 = 40

Total = 16 + 40 = 56

Ratio = 84 : 56 = 3 : 2

Option D is the correct answer

**Question 48**

In coaching institute B, the total number of students who have enrolled from schools P and R together is what percent less than the total number of students enrolled from schools Q and S together ?

- A  $20\frac{1}{13}\%$
- B  $17\frac{3}{11}\%$
- C  $18\frac{2}{11}\%$
- D  $19\frac{1}{5}\%$
- E  $16\frac{2}{5}\%$

**Answer: C**

**Explanation:**

Number of students who have enrolled from coaching institute B from schools P = 24% of 100 = 24

Number of students who have enrolled from coaching institute B from schools Q = 33% of 100 = 33

Number of students who have enrolled from coaching institute B from schools R = 21% of 100 = 21

Number of students who have enrolled from coaching institute B from schools S = 22% of 100 = 22

Number of students who have enrolled from coaching institute B from schools P and R = 24 + 21 = 45

Number of students who have enrolled from coaching institute B from schools Q and S = 33 + 22 = 55

$$55-45/55 = 18.1818 = 18 \frac{2}{11}\%$$

Option C is the correct answer.

#### Question 49

What is the average number of students who have enrolled in coaching institutes A, C and D from school R ?

- A 32
- B 33
- C 34
- D 31
- E 30

Answer: A

#### Explanation:

Number of students who have enrolled from coaching institute A from schools R = 15% of 80 = 12

Number of students who have enrolled from coaching institute C from schools R = 17% of 200 = 34

Number of students who have enrolled from coaching institute D from schools R = 20% of 250 = 50

Total = 12+34+50 = 96

Average =  $96/3 = 32$

Option is the correct answer.

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#### Question 50

what is the difference between the total number of students who have enrolled from coaching institute A from schools P and S together and the total number of students who have enrolled for coaching institute C from the same school together ?

- A 78
- B 64
- C 38
- D 74
- E 67

Answer: D

#### Explanation:

Number of students who have enrolled from coaching institute A from schools P = 25% of 80 = 20

Number of students who have enrolled from coaching institute A from schools S = 40 % of 80 = 32

Total = 52.

Number of students who have enrolled from coaching institute C from schools P = 32% of 200 = 64

Number of students who have enrolled from coaching institute C from schools S = 31 % of 200 = 62

Total = 126.

Difference =  $126 - 52 = 74$

Option D is the correct answer

#### Question 51

In coaching institute D, 42% are females. If 20% of the total females are from school Q, what is the number of male students from school Q who have enrolled from coaching institute D ?

- A 5
- B 7
- C 6
- D 3
- E 4

**Answer:** E

**Explanation:**

Number of female students in Institute D = 42% of 250 = 105  
 20% of them are from School Q =  $0.2 \times 105 = 21$   
 Percentage of students in Institute D from School Q = 10%  
 Number of students in institutes from school Q = 10% of 250 =  $250 \times 0.1 = 25$   
 Number of male students =  $25 - 21 = 4$ .  
 Option E is the correct answer.

**Instructions**

In these questions, two equations numbered I and II are given. You have to solve both the equations and mark the appropriate option.  
 Give answer :

- a: If  $x > y$
- b: If  $x < y$
- c: If  $x \geq y$
- d: If  $x \leq y$
- e: If  $x = y$  or the relationship cannot be established

**Question 52**

- I.  $x^2 - 11x + 30 = 0$
- II.  $2y^2 - 9y + 10 = 0$

- A If  $x > y$
- B If  $x < y$
- C If  $x \geq y$
- D If  $x \leq y$
- E If  $x = y$  or the relationship cannot be established

**Answer:** A

**Explanation:**

Root of quadratic equation ( $ax^2 + bx + c = 0$ ) =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For equation I : a=1 , b = -11 and c= 30

On solving the quadratic equation I we get  $x = (5)$  or  $(6)$

For equation II : a=2 , b = -9 and c= 10

On solving the quadratic equation II we get  $y = (2.5)$  or  $(2)$

It is clear that  $y < x$ .

Option A is correct answer.

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**Question 53**

I.  $15x^2 + 8x + 1 = 0$

II.  $3y^2 + 14y + 8 = 0$

- A If  $x > y$
- B If  $x < y$
- C If  $x \geq y$
- D If  $x \leq y$
- E If  $x = y$  or the relationship cannot be established

**Answer: A**

**Explanation:**

Root of quadratic equation ( $ax^2 + bx + c = 0$ ) =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For equation I :  $a=15$ ,  $b = 8$  and  $c= 1$

On solving the quadratic equation I we get  $x = (-10/30)$  or  $(-6/30)$

For equation II :  $a=3$ ,  $b = 14$  and  $c= 8$

On solving the quadratic equation I we get  $y = (-4/6)$  or  $(-4)$

It is clear that  $y < x$ .

Option A is correct answer.

**Question 54**

I.  $4x^2 - 17x + 18 = 0$

II.  $2y^2 - 21y + 40 = 0$

- A If  $x > y$
- B If  $x < y$
- C If  $x \geq y$
- D If  $x \leq y$
- E If  $x = y$  or the relationship cannot be established

**Answer: B**

**Explanation:**

Root of quadratic equation ( $ax^2 + bx + c = 0$ ) =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For equation I :  $a=4$ ,  $b = -17$  and  $c= 18$

On solving the quadratic equation I we get  $x = (18/8)$  or  $(2)$

For equation II :  $a=2$ ,  $b = -21$  and  $c= 40$

On solving the quadratic equation I we get  $y = (8)$  or  $(10/4)$

It is clear that  $x < y$

Option B is correct answer.

**Question 55**

I.  $6x^2 - 25x + 14 = 0$

II.  $9y^2 - 9y + 2 = 0$

- A If  $x > y$

- B If  $x < y$
- C If  $x \geq y$
- D If  $x \leq y$
- E If  $x = y$  or the relationship cannot be established

**Answer: C**

**Explanation:**

Root of quadratic equation ( $ax^2 + bx + c = 0$ ) =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For equation I :  $a=6$ ,  $b = -25$  and  $c= 14$

On solving the quadratic equation I we get  $x = (8/12)$  or  $(42/12)$

For equation II :  $a=9$ ,  $b = -9$  and  $c= 2$

On solving the quadratic equation I we get  $y = (12/18)$  or  $(6/18)$

It is clear that  $x \geq y$

Option C is correct answer.

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**Question 56**

I.  $8x^2 + 25x + 3 = 0$

II.  $2y^2 + 17y + 30 = 0$

- A If  $x > y$
- B If  $x < y$
- C If  $x \geq y$
- D If  $x \leq y$
- E If  $x = y$  or the relationship cannot be established

**Answer: E**

**Explanation:**

Root of quadratic equation ( $ax^2 + bx + c = 0$ ) =  $\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

For equation I :  $a=8$ ,  $b = 25$  and  $c= 3$

On solving the quadratic equation I we get  $x = (-3)$  or  $(-2/16)$

For equation II :  $a=2$ ,  $b = -17$  and  $c= 30$

On solving the quadratic equation I we get  $y = (-6)$  or  $(-10/4)$

As we can see, no relationship can be established between  $x$  and  $y$ .

Therefore, option E is the correct answer.

**Instructions**

What will come in place of question mark (?) in the given number series ?

**Question 57**

**250 235 205 160 ? 25**

- A 110
- B 150
- C 75

D 100

E 120

**Answer: D**

**Explanation:**

The difference between each term is in increasing multiples of 15.

$$250-235=15$$

$$235-205=30$$

$$205-160=45$$

The next term would be 60 less than 160 which is 100.

Option D is the correct answer.

**Question 58**

20 ? 29 40 58 85

A 23

B 25

C 27

D 31

E 24

**Answer: A**

**Explanation:**

The difference between the difference of each term are consecutive odd numbers.

$$40-29 = 11$$

$$58-40=18$$

$$85-58=27$$

Difference of difference

$$18-11=7$$

$$27-18 = 9$$

Hence the difference between 29 and the missing term must be 6 so that the difference of difference is 5.

The missing number is 23.

$$29-23=6$$

and the difference of difference is  $11-6=5$ . It completes the series.

Hence Option A is the correct answer.

## SBI PO Free Mocks (Latest Pattern)

**Question 59**

5 7 17 55 225 ?

A 971

B 1131

C 1253

D 1435

E 956

**Answer: B**

**Explanation:**



$$5 \times 1 + 2 = 7$$
$$7 \times 2 + 3 = 17$$
$$17 \times 3 + 4 = 55$$
$$55 \times 4 + 5 = 225$$

The missing term is  $225 \times 5 + 6 = 1131$

Option B is the correct answer.

**Question 60**

**10 6 8 15 34 ?**

- A 95
- B 90
- C 110
- D 75
- E 85

**Answer: B**

**Explanation:**

$$((10/2)+1) \times 1 = 6 \times 1 = 6$$
$$((6/2)+1) \times 2 = 4 \times 2 = 8$$
$$((8/2)+1) \times 3 = 5 \times 3 = 15$$
$$((15/2)+1) \times 4 = 8.5 \times 4 = 34$$
$$((34/2)+1) \times 5 = 18 \times 5 = 90$$

Option B is the correct answer.

**Question 61**

**85 53 33 22 17 ?**

- A 5
- B 9
- C 10
- D 8
- E 15

**Answer: E**

**Explanation:**

The difference between the difference of two consecutive terms is in decreasing order of multiples of 3.

$$85 - 53 = 32$$
$$53 - 33 = 20$$
$$33 - 22 = 11$$
$$22 - 17 = 5$$

Difference of differences

$$32 - 20 = 12$$
$$20 - 11 = 9$$
$$11 - 5 = 6$$

and the next difference must be 3.

$$5 - 2 = 3$$

Hence the next number must be 2 less than 17 which is 15.

Option E is the correct answer

## SBI Clerk Free Mock Test (Latest Pattern)

### Instructions

For the following questions answer them individually

### Question 62

A started a business by investing Rs. 25,000/-. At the end of 4th month from the start of the business, B joined with Rs.15,000/-and at the end of 6th month from the start of the business, C joined with Rs.20,000/-. If A's share in profit at the end of year was Rs.27,750/-, what was the total profit received ?

- A Rs.49,950/-
- B Rs.49,810/-
- C Rs.49,920/-
- D Rs.50,780/-
- E Rs.14,040/-

Answer: A

### Explanation:

A invested Rs. 25,000 for 12 months, B invested Rs. 15,000 for 8 months and C invested Rs. 20,000 for 6 months.

Ratio of profit earned by A:B:C

$$= (25,000 \times 12) : (15,000 \times 8) : (20,000 \times 6)$$

$$= 150 : 60 : 60 = 5 : 2 : 2$$

Let total profit = Rs.  $x$

$$\Rightarrow \text{A's share} = \frac{5}{5+2+2} \times x = 27,750$$

$$\Rightarrow x = 27750 \times \frac{9}{5} = \text{Rs. } 49,950$$

$\Rightarrow$  Ans - (A)

### Question 63

The respective ratio of radii of two right circular cylinders (A and B) is 3 : 2. The respective ratio of volumes of cylinders A and B is 9 : 7, then what are the heights of cylinders A and B ?

- A 8 : 5
- B 4 : 7
- C 7 : 6
- D 5 : 4
- E 6 : 5

Answer: B

### Explanation:

Volume of a cylinder =  $\pi r^2 h$

where  $r$  and  $h$  are radius and height of the cylinder respectively.

Let  $r_1$ ,  $h_1$ ,  $r_2$  and  $h_2$  be the radius and heights of the two cylinders respectively.

$$\pi(r_1)^2 h_1 : \pi(r_2)^2 h_2 = 9 : 7 \text{ ----- } 1$$

Ratio of radii  $r_1 : r_2 = 3 : 2$

Ratio of square of radii = 9 : 4

Replacing the ratio of radii in 1

$$9h_1 : 4h_2 = 9 : 7$$

$$h_1 : h_2 = (9 \times 4) : (7 \times 9) = 4 : 7$$

Option B is the correct answer.

#### Question 64

Surf gave 25% of her monthly salary to her mother. From the remaining salary, she paid 15% towards rent and 25% she kept aside for her monthly expenses. The remaining amount she kept in bank account. The sum of the amount she kept in bank and that she gave to her mother was Rs.42,000/-. What was her monthly salary ?

A Rs.50,000/-

B Rs.60,000/-

C Rs.65,000/-

D Rs.64,000/-

E Rs.72,000/-

**Answer: B**

#### Explanation:

Surf gave 25% of her monthly salary to her mother. Remaining is 75%

15% of 75% was given for rent and 25% of 75% was kept for monthly expenses.

Remaining 60% of 75% was put in Bank account.

% of his monthly salary and 40% of remaining 65% of his monthly salary = 43290

Let his monthly salary be Rs.X

$$25\% \text{ of } X + 60\% \text{ of } 75\% \text{ of } X = 42,000$$

$$0.25 X + 0.45 X = 42,000$$

$$0.70 X = 42,000$$

$$X = 42,000 / 0.7 = 60,000$$

Option B is the nearest answer.

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#### Question 65

At present, Ami's age is twice Dio's age and Cami is two years older than Ami. Two years ago, the respective ratio between Dio's age at that time and Cami's age at that time was 4 : 9. What will be Ami's age four years hence ?

A 40 years

B 30 years

C 42 years

D 36 years

E 48 years

**Answer: A**

#### Explanation:

Let Ami, Dio and Cami's ages be A, D and C.

$$A = 2D$$

$$C = A + 2$$

$$C - 2 = A = 2D$$

$$D - 2 : C - 2 = 4 : 9$$

$$D - 2 : 2D = 4 : 9$$

$$9(D - 2) = 8D$$

$$9D - 18 = 8D$$

$$D = 18$$

$$D = 18$$

$$A = 36$$

4 years hence Ami's age will be 40.

Option A is the correct answer.

## Banking Daily Free Topic Test

### Reasoning

#### Instructions

In these questions, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer.

Give answer :

a: If only conclusion I is true.

b: If either conclusion I or II is true

c: If only conclusion II is true.

d: If neither conclusion I nor II is true

e: If both conclusions I and II are true.

#### Question 66

**Statements :**

$$G \geq R > O \geq S; Y < O \leq F$$

**Conclusions :**

I.  $G > Y$

II.  $S \leq F$

A If only conclusion I is true.

B If either conclusion I or II is true

C If only conclusion II is true.

D If neither conclusion I nor II is true

E If both conclusions I and II are true.

**Answer: E**

#### Question 67

**Statements :**

$$W \geq I = P > E \geq S$$

**Conclusions :**

I.  $S < W$

II.  $S = W$

A If only conclusion I is true.

B If either conclusion I or II is true

C If only conclusion II is true.

D If neither conclusion I nor II is true

E If both conclusions I and II are true.

**Answer: A**

**Question 68**

**Statements :**

$$R \leq C \leq J = T \leq P > Q \geq H$$

**Conclusions :**

- I.  $R < P$
- II.  $P = R$

- A If only conclusion I is true.
- B If either conclusion I or II is true
- C If only conclusion II is true.
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true.

**Answer: B**

**Question 69**

**Statements :**

$$R \leq O < A \leq M; L = D \geq A$$

**Conclusions :**

- I.  $R < L$
- II.  $D > O$

- A If only conclusion I is true.
- B If either conclusion I or II is true
- C If only conclusion II is true.
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true.

**Answer: E**

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**Question 70**

**Statements :**

$$R \leq C \leq J = T \leq P > Q \geq H$$

**Conclusions :**

- I.  $H > T$
- II.  $C \leq Q$

- A If only conclusion I is true.
- B If either conclusion I or II is true
- C If only conclusion II is true.
- D If neither conclusion I nor II is true
- E If both conclusions I and II are true.

**Answer: D**

## Instructions

Study the following information and answer the given questions.

Seven people, namely C, D, E, F, G, H and I like different cities namely, Surat, Kolkata, Bangalore, Mumbai, Ranchi, Delhi and Pune. Each of them studies in either of three schools viz. DAS, RIS and VCS with atleast two of them in a school. (Note : None of the information given is necessarily in the same order.) F studies with the one who likes Bangalore in RIS. The one who likes Delhi studies only with H. H does not like Bangalore. C studies with those who like Surat and Pune. C does not study with F. E studies only with the one who likes Mumbai. The one who likes Mumbai does not study with the one who likes Delhi. More than one person studies with D. D does not like Pune. Both I and the one who likes Ranchi study in the same school but not in DAS. H does not like Ranchi. –

### Question 71

Which of the following combinations represents the school in which E studies and the city he likes ?

- A DAS-Bangalore
- B RIS-Bangalore
- C DAS-Kolkata
- D VCS Delhi
- E RIS-Delhi

**Answer: B**

### Explanation:

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C, D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune

E studies in RIS and likes Bangalore.

=> Ans - (B)

### Question 72

Which of the following cities does G like ?

- A Pune
- B Ranchi
- C Mumbai

D Delhi

E Surat

**Answer: D**

**Explanation:**

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C,D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune

G likes Delhi.

=> Ans - (D)

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### Question 73

Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Which of the following does not belong to that group

A DF

B CI

C HG

D FE

E ID

**Answer: A**

**Explanation:**

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C,D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune

Apart from D and F, all the students mentioned study in the same school.

=> Ans - (A)

#### Question 74

Who amongst the following likes Kolkata ?

A F

B H

C I

D C

E D

Answer: B

#### Explanation:

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C,D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune



Clearly, H likes Kolkata.

=> Ans - (B)

**Question 75**

**Which of the following combinations represents the combination of people studying in VCS ?**

- A The one who likes Delhi and Bangalore
- B The one who likes Ranchi and Mumbai
- C The one who likes Delhi, Mumbai and Kolkata
- D The one who likes Pune, Surat and Kolkata
- E The one who likes Surat, Pune and Ranchi

**Answer: E**

**Explanation:**

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C,D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune

The people who study in VCS are C,D and I and they like Ranchi, Surat and Pune respectively.

=> Ans - (E)

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**Question 76**

**Which of the following statements is not true ?**

- A F studies in the same school in which D studies.
- B Both D and C study in the same school.
- C G studies with only the one who likes Kolkata.
- D C likes Ranchi.

E All of the given statements are true.

**Answer: A**

**Explanation:**

F studies with the one who likes Bangalore in RIS and H does not like Bangalore, => H does not study in RIS.

C studies with those who like Surat and Pune and C does not study with F, => Only 2 people study in RIS.

The one who likes Delhi studies only with H.

E studies only with the one who likes Mumbai and the one who likes Mumbai does not study with the one who likes Delhi, => E likes Bangalore and studies in RIS with only F, who likes Mumbai.

More than one person studies with D and D does not like Pune, => D likes Surat and studies with C.

Both I and the one who likes Ranchi study in the same school but not in DAS, => C,D and I studies in VCS and C likes Ranchi.

Thus, only 2 students study in DAS i.e., G and H who like Delhi and Kolkata respectively.

School	Person	City
DAS	H	Kolkata
	G	Delhi
RIS	F	Mumbai
	E	Bangalore
VCS	C	Ranchi
	D	Surat
	I	Pune

F and D study in different schools.

=> Ans - (A)

**Instructions**

Study the following information and answer the given questions.

D is the mother of S. S is the sister of T. T is the mother of R. R is the only son of J. J is the father of U. U is married to K.

**Question 77**

**How is J related to D?**

- A Brother-in-law
- B Son-in-law
- C Grandson
- D Son
- E Nephew

**Answer: B**

**Explanation:**

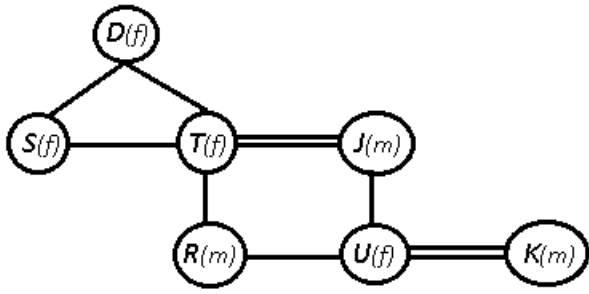
D is the mother of S. S is the sister of T, => T and S are daughters of D (female).

T is the mother of R. R is the only son of J. J is the father of U.

=> J is husband of T and U is their daughter.

U is married to K.

'=' represents married couple and '-' represents siblings



J is son-in-law of D.

=> Ans - (B)

**Question 78**

If R is the father of X, then how is K related to X ?

- A Father
- B Aunt
- C Uncle
- D Father-in-law
- E Mother

**Answer: C**

**Explanation:**

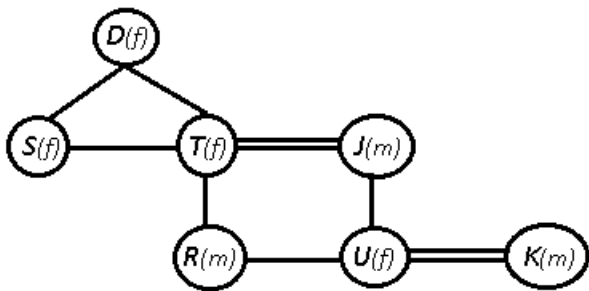
D is the mother of S. S is the sister of T, => T and S are daughters of D (female).

T is the mother of R. R is the only son of J. J is the father of U.

=> J is husband of T and U is their daughter.

U is married to K.

'=' represents married couple and '-' represents siblings



If R is the father of X, then K is the uncle of X.

=> Ans - (C)

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**Question 79**

How is S related to R ?

- A Sister-in-law
- B Mother-in-law

- C Grandmother
- D Aunt
- E Mother

**Answer:** D

**Explanation:**

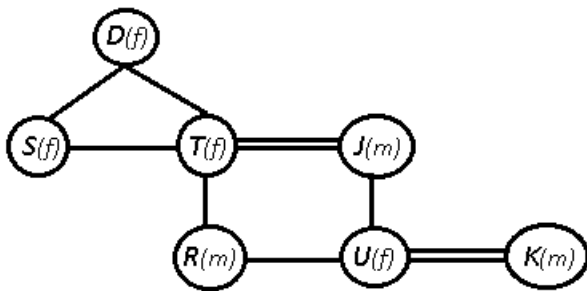
D is the mother of S. S is the sister of T, => T and S are daughters of D (female).

T is the mother of R. R is the only son of J. J is the father of U.

=> J is husband of T and U is their daughter.

U is married to K.

'=' represents married couple and '-' represents siblings



S is aunt of R.

=> Ans - (D)

**Instructions**

Study the given information carefully to answer the given questions.

Seven boxes— J, K, L; M, N, O and P are kept one above the other, but not necessarily in the same order. Each box contains different elements – Cookies, Pencils, Spoons, Diaries, Colours, Jewellery and Watches, but not necessarily in the same order. Only two boxes are kept between M and N. The Pencil box is kept immediately below M. Only two boxes are kept between the Pencil box and the Watch box. N is kept above the Watch box. The Diary box is kept immediately below the Watch box. Only three boxes are kept between the Diary box and J. The Jewellery box is kept immediately above J. O is kept immediately above K. O is not a Pencil box. P is kept immediately above the Cookie box. Only one box is kept between P and the Spoon box.

**Question 80**

**Which of the following boxes is kept immediately above M ?**

- A P
- B O
- C L
- D The Diary box
- E The Jewellery box

**Answer:** D

**Question 81**

**What is the position of O in the given stack of boxes ?**

- A First from the top

- B Second from the top
- C Third from the bottom
- D Fifth from the bottom
- E Fourth from the top

Answer: B

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### Question 82

Which of the following boxes contains Spoons ?

- A Other than those given as options
- B K
- C M
- D N
- E L

Answer: C

### Question 83

Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to the group ?

- A N – Diaries
- B P – Spoons
- C K – Colours
- D L – Pencils
- E O – Spoons

Answer: D

### Question 84

How many boxes are kept between K and the Watch box ?

- A More than three
- B None
- C Three
- D One
- E Two

Answer: B

## Instructions

Study the following information to answer the given questions.

Eight Mends – A, B, C, D, L, M, N and O are seated in a straight line, but not necessarily in the same order. Some of them are facing north while some are facing south. Only three people sit to the left of N. B sits second to the right of N. C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line. C and O face same direction (i.e., if C faces north then O also faces north and vice versa.) Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line. Person sitting at extreme ends face opposite directions (i.e., if one person faces north then the other faces south and vice-versa.) Both the immediate neighbours of N face same direction (i.e., if one neighbour faces north then the other also faces north and vice versa.) A sits second to the left of L. D faces a direction opposite to L. (i.e. if L faces north then D faces south and vice-versa.)

### Question 85

How many people sit exactly between B and O ?

- A More than four
- B One
- C Two
- D Four
- E Three

Answer: E

### Explanation:

Only three people sit to the left of N, => Let N sits 4th from left end and faces north. Also, B sits second to the right of N.

C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line, => O sits 2nd to the left of N and faces south, while C sits between N and B.

C and O face same direction, => C also faces south.

Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line, => D sits 2nd to the right of C, and B face north and the person who will sit at extreme right end will also face north.

Person sitting at extreme ends face opposite directions, => Person sitting at extreme left end will face south direction.

Both the immediate neighbours of N face same direction, => Person sitting at immediate left of N will face south.

A sits second to the left of L, => L sits at extreme left end and A sits to the immediate left of O.

D faces a direction opposite to L, => D faces north.

L	O	A	N	C	B	D	M
↓	↓	↓	↑	↓	↑	↑	↑

3 people sit exactly between B and O.

=> Ans - (E)

### Question 86

Who amongst the following represent the immediate neighbours of the persons sitting at the extreme ends of the line ?

- A D, O
- B C, D
- C D, M
- D A, L
- E A, M

**Answer: A**

**Explanation:**

Only three people sit to the left of N, => Let N sits 4th from left end and faces north. Also, B sits second to the right of N.

C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line, => O sits 2nd to the left of N and faces south, while C sits between N and B.

C and O face same direction, => C also faces south.

Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line, => D sits 2nd to the right of C, and B face north and the person who will sit at extreme right end will also face north.

Person sitting at extreme ends face opposite directions, => Person sitting at extreme left end will face south direction.

Both the immediate neighbours of N face same direction, => Person sitting at immediate left of N will face south.

A sits second to the left of L, => L sits at extreme left end and A sits to the immediate left of O.

D faces a direction opposite to L, => D faces north.

L	O	A	N	C	B	D	M
↓	↓	↓	↑	↓	↑	↑	↑

D and O are the immediate neighbours of the persons sitting at the extreme ends of the line.

=> Ans - (A)

**Question 87**

**Who amongst the following faces north ?**

A A

B L

C O

D N

E C

**Answer: D**

**Explanation:**

Only three people sit to the left of N, => Let N sits 4th from left end and faces north. Also, B sits second to the right of N.

C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line, => O sits 2nd to the left of N and faces south, while C sits between N and B.

C and O face same direction, => C also faces south.

Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line, => D sits 2nd to the right of C, and B face north and the person who will sit at extreme right end will also face north.

Person sitting at extreme ends face opposite directions, => Person sitting at extreme left end will face south direction.

Both the immediate neighbours of N face same direction, => Person sitting at immediate left of N will face south.

A sits second to the left of L, => L sits at extreme left end and A sits to the immediate left of O.

D faces a direction opposite to L, => D faces north.

L	O	A	N	C	B	D	M
↓	↓	↓	↑	↓	↑	↑	↑

Among the given options, only N faces north.

=> Ans - (D)

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### Question 88

Which of the following is true based on the given arrangement ?

- A B and C face the same directions.
- B None of the given options is true.
- C B faces south.
- D Only three people face south.
- E M sits at one of the extreme ends of the line.

**Answer:** E

#### Explanation:

Only three people sit to the left of N, => Let N sits 4th from left end and faces north. Also, B sits second to the right of N.

C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line, => O sits 2nd to the left of N and faces south, while C sits between N and B.

C and O face same direction, => C also faces south.

Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line, => D sits 2nd to the right of C, and B face north and the person who will sit at extreme right end will also face north.

Person sitting at extreme ends face opposite directions, => Person sitting at extreme left end will face south direction.

Both the immediate neighbours of N face same direction, => Person sitting at immediate left of N will face south.

A sits second to the left of L, => L sits at extreme left end and A sits to the immediate left of O.

D faces a direction opposite to L, => D faces north.

L	O	A	N	C	B	D	M
↓	↓	↓	↑	↓	↑	↑	↑

The only true statement is that M sits at one of the extreme ends of the line.

=> Ans - (E)

### Question 89

Who amongst the following sits second to the right of C ?

- A A
- B No one as only one person sits to the right of C.
- C M
- D B
- E L

**Answer:** A

#### Explanation:

Only three people sit to the left of N, => Let N sits 4th from left end and faces north. Also, B sits second to the right of N.

C sits third to the left of O. O is not an immediate neighbour of B. O does not sit at any of the extreme ends of the line, => O sits 2nd to the left of N and faces south, while C sits between N and B.

C and O face same direction, => C also faces south.



Both the immediate neighbours of D face north. D does not sit at any of the extreme ends of the line, => D sits 2nd to the right of C, and B face north and the person who will sit at extreme right end will also face north.

Person sitting at extreme ends face opposite directions, => Person sitting at extreme left end will face south direction.

Both the immediate neighbours of N face same direction, => Person sitting at immediate left of N will face south.

A sits second to the left of L, => L sits at extreme left end and A sits to the immediate left of O.

D faces a direction opposite to L, => D faces north.

L	O	A	N	C	B	D	M
↓	↓	↓	↑	↓	↑	↑	↑

A sits second to the right of C.

=> Ans - (A)

**Instructions**

Read the following information and answer the given questions.

Point J is 20m to the north of Point G. Point G is 10m to the west of Point K. Point K is 15m to the south of Point L. Ashish is standing at Point T which is 30m to the east of Point L. He starts walking towards south and walks for 35m. He takes a right turn and stops at Point M after walking for 40m.

**Question 90**

How far and in which direction is Point G with respect to Point M ?

- A 15m towards South
- B 15m towards West
- C 20m towards South
- D 15m towards North
- E 20m towards North

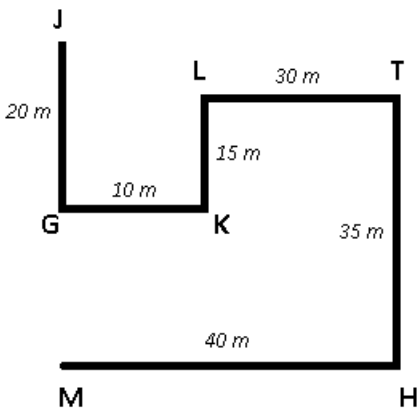
**Answer: E**

**Explanation:**

Point J is 20m to the north of Point G and Point G is 10m to the west of Point K. Also, point K is 15m to the south of Point L.

Ashish is standing at Point T which is 30m to the east of Point L.

He starts walking towards south and walks for 35m and stops at point H. Finally, he takes a right turn and stops at Point M after walking for 40m.



Point G is in north direction with respect to point M, distance  $MG = 35 - 15 = 20\text{ m}$

=> Ans - (E)

**Question 91**

If Ashish walks for 10m towards north from his final position to reach Point D, how much distance will he have to cover in order to reach Point J ?

- A 10 m
- B 35 m
- C 25 m
- D 20m
- E 30m

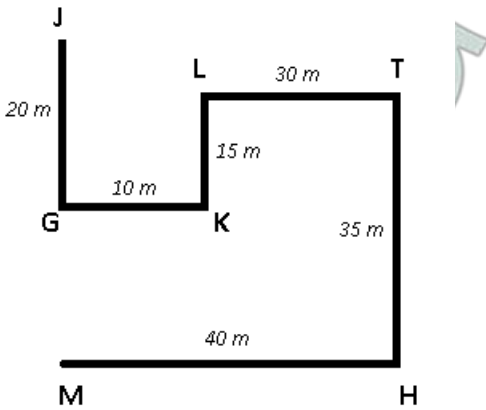
**Answer:** E

**Explanation:**

Point J is 20m to the north of Point G and Point G is 10m to the west of Point K. Also, point K is 15m to the south of Point L.

Ashish is standing at Point T which is 30m to the east of Point L.

He starts walking towards south and walks for 35m and stops at point H. Finally, he takes a right turn and stops at Point M after walking for 40m.



Distance between point M and J =  $20 + (35 - 15) = 40$  m

If Ashish walks for 10 m from M and reach D, distance DJ =  $40 - 10 = 30$  m

=> Ans - (E)

**Instructions**

Read the given information carefully and answer the given questions.

Each of the six friends, I, J, K, L, M and N working in an office handles different number of projects in a month. I handles the second lowest number of projects. K handles more projects than L and M but less than J. J did not handle the maximum number of projects. M did not handle the minimum number of projects. The one who handle the third highest number of projects handled 31 projects. L handled 12 projects.

**Question 92**

How many projects did J possibly handle -

- A 28
- B 10
- C 36
- D 9
- E 15

**Answer: C**

**Explanation:**

I handles the second lowest number of projects.

K handles more projects than L and M but less than J,  $\Rightarrow J > K > L, M$

J did not handle the maximum number of projects,  $\Rightarrow$  J handled 2nd highest number of projects and K handled 3rd highest.

M did not handle the minimum number of projects,  $\Rightarrow$  L handled the least number of projects and N handled the highest.

Combining above statements, we get :

$$\therefore N > J > K > M > I > L$$

Number of projects handled by K = 31 and L = 12

J definitely handled more projects than K (31) i.e., 36

$\Rightarrow$  Ans - (C)

**Question 93**

If the number of projects handled by (I + K) is only thirty-three more than number of projects handled by L, how many projects were handled by I ?

A 22

B 14

C 19

D 9

E 32

**Answer: B**

**Explanation:**

I handles the second lowest number of projects.

K handles more projects than L and M but less than J,  $\Rightarrow J > K > L, M$

J did not handle the maximum number of projects,  $\Rightarrow$  J handled 2nd highest number of projects and K handled 3rd highest.

M did not handle the minimum number of projects,  $\Rightarrow$  L handled the least number of projects and N handled the highest.

Combining above statements, we get :

$$\therefore N > J > K > M > I > L$$

Number of projects handled by K = 31 and L = 12

Let the number of projects handled by I =  $x$

$$\Rightarrow x + 31 = 12 + 33$$

$$\Rightarrow x = 45 - 31 = 14$$

$\Rightarrow$  Ans - (B)

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**Question 94**

Which of the following is true regarding the number of projects handled by N ?

A No one handles more projects than N.

B Only J handled more number of projects than N.

- C N possibly handled 24 projects.
- D N handled more number of projects than only three. people.
- E The difference between projects handled by N and L is less than 18.

**Answer: A**

**Explanation:**

I handles the second lowest number of projects.

K handles more projects than L and M but less than J, =>  $J > K > L, M$

J did not handle the maximum number of projects, => J handled 2nd highest number of projects and K handled 3rd highest.

M did not handle the minimum number of projects, => L handled the least number of projects and N handled the highest.

Combining above statements, we get :

$$\therefore N > J > K > M > I > L$$

Number of projects handled by K = 31 and L = 12

The only true statement is that no one handles more projects than N.

=> Ans - (A)

**Instructions**

Study the following information and answer the questions.

Seven people, namely K, L, M, N, O, P and Q have to attend a concert but not necessarily in the same order, on seven different months (of the same year) namely January, February, April, May, June, September and November. Each of them also likes a different movie namely X-Men, Transformers, Frozen, Minions, Shrek, Tangled and Rio but not necessarily in the same order. M will attend a concert in a month which has 31 days. Only two people will attend a concert between M and the one who likes Frozen. The one who likes Frozen will attend a concert on one of the months after M. Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers. The one who likes Transformers will attend a concert in a month which has 31 days. K will attend a concert immediately after M. Only three people will attend a concert between K and the one who likes Tangled. Only one person will attend a concert between the one who likes Tangled and L. Only two people will attend a concert between L and the one who likes Rio. The one who likes X-Men will attend a concert immediately before the one who likes Shrek. Only one person will attend a concert between the one who likes Shrek and P. Only three people will attend a concert between Q and O. Q will not attend a concert in a month which has 30 days.

**Question 95**

**Who amongst the following likes X-Men ?**

- A M
- B K
- C O
- D L
- E Q

**Answer: E**

**Explanation:**

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.

Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

Clearly, Q likes X-Men.

=> Ans - (E)

#### Question 96

How many people will attend a concert after M ?

- A More than three
- B One
- C None
- D Two
- E Three

Answer: E

#### Explanation:

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.

Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

There are 3 people who will attend a concert after M.

=> Ans - (E)

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### Question 97

Which of the following represents the people who will attend a concert immediately before and immediately after Q ?

- A M, N
- B P, L
- C L, N
- D P, N
- E N, M

Answer: B

#### Explanation:

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.

Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

P and L will attend concert immediately before and after Q respectively.

=> Ans - (B)

#### Question 98

As per the given arrangement, January is related to Q and May is related to K following a certain pattern, which of the following is April related to following the same pattern ?

- A P
- B O
- C M
- D L
- E N

**Answer:** C

#### Explanation:

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.

Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

January is related to Q, => Q attends immediately after January.

May is related to K, => K attends immediately after May.

Similarly, M attends immediately after April, => April is related to M.

=> Ans - (C)

#### Question 99

Which of the following represents the month in which K will attend a concert ?

- A September
- B June
- C November
- D April
- E Cannot be determined

**Answer: B**

#### Explanation:

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.



Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

K will attend a concert in June.

=> Ans - (B)

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### Question 100

Who amongst the following likes Minions?

- A M
- B L
- C P
- D Other than those given as options
- E K

**Answer:** E

#### **Explanation:**

M will attend a concert in a month which has 31 days, => Let M attend the concert in May.

Only two people will attend a concert between M and the one who likes Frozen and the one who likes Frozen will attend a concert on one of the months after M, => The one who likes frozen will attend concert in November.

Only two people will attend a concert between the one who likes Frozen and the one who likes Transformers, => The one who likes transformers attends concert in May.

K will attend a concert immediately after M, => K will attend concert in June.

Only three people will attend a concert between K and the one who likes Tangled, => The one who likes tangled attend in January.

Only one person will attend a concert between the one who likes Tangled and L, => L will attend in April.

Only two people will attend a concert between L and the one who likes Rio, => The one who likes Rio will attend in September.

The one who likes X-Men will attend a concert immediately before the one who likes Shrek, => The one who likes X-Men will attend concert in February and the one who likes Shrek will attend in April.

Only one person will attend a concert between the one who likes Shrek and P, => P will attend in January.

Only three people will attend a concert between Q and O and Q will not attend a concert in a month which has 30 days, => Q will attend in February, which has less than 30 days.

Months	Person	Movie
January (31)	P	Tangled
February (28/29)	Q	X-Men
April (30)	L	Shrek
May (31)	M	Transformers
June (30)	K	Minions
September (30)	O	Rio
November (30)	N	Frozen

K likes Minions.

=> Ans - (E)

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