

# IBPS PO प्रारंभिक 2019 स्मृति आधारित पेपर



**Direction (1 – 6) :** 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 are suggested, one of which fits the blank appropriately.

Invasive pests and weeds can (###Q1###) country by flying over the border or by simply growing gratuitously. In such cases, (###Q2###) their entry is difficult. However, when they land up at airports and dockyards in cargos of imported grain or with items carried by tourists, the authorities should be able to (###Q3###) them out. For this reason, countries have animal, plant and health quarantine facilities at all transborder entry points.

Tanzania, however, seems to have let its guard (###Q4###) late, especially with regards to agricultural products, which form the bulk of its imports. It is difficult to establish how pests and weeds are entering the country. What is (###Q5###) is that there is no institutional mechanism to even probe these invasions. The concerned ministry has not (###Q6###) a single invasion till date.

1. Find the appropriate word in each case.

- A. Reach
- B. Leave on
- C. Protrude
- D. Enter any
- E. Search for

2. Find the appropriate word in each case.

- A. Getting
- B. Allowing
- C. Blocked
- D. Detecting
- E. Checking

3. Find the appropriate word in each case.

- A. Hide
- B. Weed
- C. Grow
- D. Cultivate
- E. Filtered

4. Find the appropriate word in each case.

- A. Closed of

B. Down of

C. Loose

D. Up a bit

E. Though

5. Find the appropriate word in each case.

A. Accountable

B. Understandable

C. Inexplicable

D. Pleasing

E. Efficient

6. Find the appropriate word in each case.

A. Investigated

B. Followed up

C. Recruited

D. Accused

E. Entertain

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

7. Several new business (1)/ have come up recently due to (2)/ the various schemes (3)/ introduced by the government. (4)

A. 1

B. 2

C. 3

D. 4

E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

8. If there is something you want (1)/ to accomplish then simply make (2)/ a decision and do it rather than (2)/ waiting for the right time. (4)

A. 1

B. 2

C. 3

D. 4

E. No error

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**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

9. Experts suggest that (1)/ making work rewarding (2)/ may mean rethinking the way (3)/ company are led. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

10. Psychologists has done a (1)/ considerable amount of research (2)/ to assess the effectiveness of various strategies (3)/ for behaviour modification. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

11. We all have the ability to focus (1)/ and concentrate, but only if we (2)/ decide what is important to us (3)/ and we want to accomplishing. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction:** Read the sentence to find out whether there is an error in it. The error, if any, will be in one part of the sentence. The number corresponding to that part will be your answer. If the given sentence is correct as it is, mark the answer as 'No error'. Ignore the errors of punctuation, if any.

12. Just around two decades ago, (1)/ few imagine that the robust data, (2)/ messaging, voice and video connections (3)/ could be established with such ease. (4)

- A. 1
- B. 2
- C. 3
- D. 4
- E. No error

**Direction (13 – 19) :** Read the following passage carefully and answer the questions given below it. Certain words are printed in bold to help you locate them while answering some of these.

There was something pathetic about a minister's wishful thinking as he addressed the media and talked about his vision of 5G mobile generation for country X. He said his vision of 5G for the country was not just a rollout of services, but the creation of intellectual property (IP) in the country and patents in 5G technology.

This may be possible in a couple of decades, but right now we might as well be crying for the moon. While companies around the world, notably the Chinese, have secured thousands of patents in this revolutionary technology that will provide the platform for inventing a host of new products, technologies and services, the companies in country X are yet to start field trials of 5G spectrum for which permission was granted just recently.

Equipment for these trials, needless to say, will be provided by foreign vendors. Most people assume that 5G will provide faster speeds than 4G, which bypasses the hinterland and works only **patchily** in the urban area, **but that would be a gross simplification**.

A global 5G network will unify mobile communication and connect people and

devices to everything through the Internet of Things. Given that 3G and 4G patent holders have controlled the use of mobile technologies in the smartphone industry, those who own the intellectual property (IP), primarily the standard essential patents, will become the market leaders in a technology that will reshape the future.

Country X has sent missions to the moon but in the area where technological prowess matters most, the country is lost in a black hole. Not a single telecom firm of the country is in the list of 303 deployment of 5G technology worldwide. This industry list has 20 operators in 294 locations. Worse, although the domestic firms are expected to start their three-month-long trial shortly, it is worth remembering that the industry is in **dire straits** with huge debts and has indicated that it would be in no position to bid for 5G spectrum.

Nor does country X have the kind of resources that China is investing in 5G apart from the sharp research effort on it. No wonder Chinese firms command the lion's share of patents among the clutch of global firms that own IP in 5G. Its star performer Huawei \_\_\_\_\_ to surge ahead with revenues soaring by 23 per cent. Country X has to decide if Huawei is a security threat or not.

Can country X ever catch up? Field trials are just the starting point; it merely allows operators and equipment makers to prove that the network they have designed in a laboratory actually works in practice. Then there is the long haul to a commercial rollout.

As country X obsesses about its technological expertise in a mythical past, the future is looking decidedly dim.

Source: <https://www.downtoearth.org.in>

13. Which of the following carries a similar meaning to DIRE STRAITS?

- A. Lack of employees
- B. Investing Elsewhere
- C. Financially Stable
- D. Facing a paucity of researchers
- E. A difficult situation

14. Which of the following is true with reference to the passage?

- A. 5G connectivity will improve connectivity only in rural areas.
- B. Country X lags behind other countries in every field of science and technology.
- C. None of the given options.
- D. Many companies of country X feature in the list of companies holding 5G patents.
- E. The government of country X has hugely invested in 5G technology, which has paid huge dividends.

15. What does the author intend to convey from the following segment of the passage?

**"...but that would be a gross simplification..."**

- A. 5G technology is a lot more than just improved speed and connectivity.
- B. Telecom companies worldwide will incur losses once 5G technology is commercialised.
- C. There is not much difference between 4G and 5G technology.
- D. Connectivity will be the only issue with 5G technology.
- E. 5G technology will provide only internet at a high speed.

16. According to the author, what is the reason country X has not made great strides in 5G technology?

- a. Telecom companies of company X are in bad shape financially.
- b. Slow pace of research in the field of 5G technology.
- c. Economic backwardness of country X.
- A. Only a
- B. Only c
- C. Both a and b
- D. Both b and c
- E. All a, b and c

17. Which of the following is opposite in meaning to PATCHILY?

- A. Decoratively
- B. Noisily
- C. Consistently
- D. Irregularly
- E. Inadvertently

18. The author of the passage is most likely to agree with which of the following?

- a. The future of 5G in country X is bleak.
  - b. China is hugely responsible for the bad shape of telecom companies in country X.
  - c. Getting 5G technology patented is a tedious task.
- A. Only a
  - B. Only c
  - C. Both a and c
  - D. Both b and c
  - E. All a, b and c

19. Which of the following can fill the blank given in the passage?

- A. Recedes
- B. Go on
- C. Continues
- D. Rests
- E. Emerges

**Direction:** In the given question, four words are printed in bold and are numbered 1, 2, 3 and 4. Of these, the positions of two of these words may be incorrect and need to be exchanged to make the sentence correct. Find the two words which need to be exchanged. In case the given sentence is correct, your answer is (E), i.e. 'No exchange required'.  
20. To **carry** (1) the illicit sale of liquor in areas under **limit**, (2) the authorities have laid down a **prohibition** (3) on the amount of alcohol one can **restrict** (4).

- A. 1-4 & 2-3
- B. 2-3
- C. 1-3
- D. 2-4 & 1-3
- E. No exchange required

**Direction:** In the given question, four words are printed in bold and are numbered 1, 2, 3 and 4. Of these, the positions of two of these words may be incorrect and need to be exchanged to make the sentence correct. Find the two words which need to be exchanged. In case the given sentence is correct, your answer is (E), i.e. 'No exchange required'.  
21.

Employees are **ill** (1) to go to work despite being too **obliged** (2), especially

in a **layoffs** (3) where instances of **scenario** (4) are on a rise.

- A. 1-2
- B. 2-3 & 1-4
- C. 1-2 & 3-4
- D. 2-4
- E. No exchange required

**Direction:** In the given question, four words are printed in bold and are numbered 1, 2, 3 and 4. Of these, the positions of two of these words may be incorrect and need to be exchanged to make the sentence correct. Find the two words which need to be exchanged. In case the given sentence is correct, your answer is (E), i.e. 'No exchange required'.  
22. Corals are **prone** (1) to temperature **changes**, (2) which affect their structures, **making** (3) them **sensitive** (4) to diseases and even death.

- A. 1-4
- B. 2-3
- C. 1-3
- D. 2-4
- E. No exchange required

**Direction:** In the given question, four words are printed in bold and are numbered 1, 2, 3 and 4. Of these, the positions of two of these words may be incorrect and need to be exchanged to make the sentence correct. Find the two words which need to be exchanged. In case the given sentence is correct, your answer is (E), i.e. 'No exchange required'.  
23. A preliminary **diet** (1) by the team of scientists **explains** (2) how restricted **report** (3) affects **molecular** (4) mechanisms.

- A. 1-2
- B. 2-3
- C. 1-3
- D. 2-4
- E. No exchange required

**Direction:** In the given question, a statement with a blank has been given, followed by three word out of which more than one can complete the sentence grammatically and contextually. Find the word (s) which can fill the blank and choose the option accordingly.

24. The minister was \_\_\_\_\_ by the authorities for not paying the taxes.

- I) Hounded
- II) Moved
- III) Pursued
- A. Only I
- B. Only II
- C. Only III
- D. Both I & II
- E. Both I & III

**Direction:** In the given question, a statement with a blank has been given, followed by three word out of which more than one can complete the sentence grammatically and contextually. Find the word (s) which can fill the blank and choose the option accordingly.

25. \_\_\_\_\_ The \_\_\_\_\_ family \_\_\_\_\_ barely \_\_\_\_\_ the rigours of the summer, but the winter will present far worse problems.

- I) Relished
- II) Survived
- III) Endured
- A. Only I
- B. Only II
- C. Only III
- D. Both II & III
- E. Both I & II

**Direction:** In the given question, a statement with a blank has been given, followed by three word out of which more than one can complete the sentence grammatically and contextually. Find the word (s) which can fill the blank and choose the option accordingly.

26. Tobacco chewing and smoking has been a \_\_\_\_\_ healthcare challenge in many developing countries.

- I) Serious
- II) Sincere
- III) Seldom
- A. Only II
- B. Only I
- C. Only III
- D. Both I & II
- E. Both I & III

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

27. Farmers in north India **not only can help** reduce air pollution but also improve the productivity of their soil.

- A. only cannot help
- B. can not only help
- C. can only not help
- D. not can only help
- E. No correction required

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

28. The food regulator **are facing a** barrage of criticism ever since it took a decision over making food fortification illegal.

- A. had been facing a
- B. have been facing a
- C. is facing a
- D. has been facing a
- E. No correction required

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

29. The sesame seed may seem like an unlikely **representation for trace** the

history of the global food trade, but it is the most apt one.

- A. representative to tracing
- B. representative to trace
- C. represent for tracing
- D. representative of the trace
- E. No correction required

**Direction:** In the given question, a part of the sentence is printed in bold. Below the sentence, alternatives to the emboldened part are given as (A), (B), (C) and (D), which may help improve the sentence. Choose the correct alternative out of the given five options. In case the given sentence is correct, your answer will be option (E), i.e., "No correction required".

30. Food with its notions of purity and impurity has and still continues to be a bone of **contention among people from** various castes.

- A. contention between people of
- B. contentious among people of
- C. content among people of
- D. contention between people from
- E. No correction required

निर्देश (31 - 36) : निम्नलिखित संख्या श्रृंखला में प्रश्न चिह्न(?) के स्थान पर क्या आना चाहिए?

31. 48, 63, 52, 67, ?, 71

- A. 52
- B. 60
- C. 54
- D. 62
- E. 56

32. 17, 29, 53, 101, 197, ?

- A. 391
- B. 374
- C. 383
- D. 375
- E. 389

33. 15, 24, 52, 117, ?, 460

- A. 237

B. 243

C. 257

D. 251

E. 239

34. 16, 21, 31, 45, 62, ?

- A. 81
- B. 89
- C. 87
- D. 78
- E. 93

35. 6, 11, 27, 86, ?, 1750

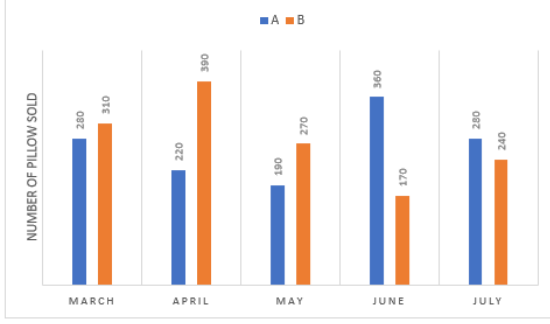
- A. 349
- B. 341
- C. 355
- D. 351
- E. 363

36. 5, 14, 78, 103, 319, ?

- A. 368
- B. 372
- C. 364
- D. 354
- E. 378

**निर्देश (37 - 42) :** निम्नलिखित ग्राफ का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें:

नीचे दिए गए बार ग्राफ में 5 महीनों में दो स्टोर A और B द्वारा बेचे गए तकिए की संख्या को दर्शाया गया है।



37. स्टोर A द्वारा जून और जुलाई में और स्टोर B द्वारा मई और जून में बेची गई कुल तकियों की संख्या का संबंधित अनुपात कितना है?

- A. 14 : 9
- B. 16 : 13
- C. 14 : 11
- D. 12 : 7
- E. 16 : 11

38. यदि अगस्त में स्टोर A और B द्वारा एक साथ बेची जाने वाली तकियों की कुल संख्या मई में बेची गई तकियों की कुल संख्या से 230 अधिक है, तो अगस्त में स्टोर A और B द्वारा एक साथ बेची जाने वाली तकियों की कुल संख्या कितनी है?

- A. 690
- B. 720
- C. 710
- D. 680
- E. 700

39. फरवरी और मार्च में स्टोर A द्वारा बेचे गए तकिए की संख्या के बीच का संबंधित अनुपात 11: 7 है और स्टोर B द्वारा फरवरी और अप्रैल में बेचे गए तकिए की संख्या के बीच का अनुपात 9: 13 है। फरवरी में स्टोर A और B द्वारा बेचे जाने वाले तकिए की संख्या के बीच का अंतर कितना है?

- A. 170
- B. 160
- C. 150
- D. 200

E. 180

40. अप्रैल से जून तक स्टोर A द्वारा बेची जाने वाली तकियों की संख्या में होने वाली प्रतिशत वृद्धि कितनी है?

- A.  $63\frac{7}{11}$
- B.  $69\frac{3}{11}$
- C.  $71\frac{1}{11}$
- D.  $65\frac{5}{11}$
- E.  $61\frac{4}{11}$

41. मार्च, अप्रैल और जून में स्टोर B द्वारा बेचे जाने वाली तकियों की औसत संख्या क्या होगी?

- A. 280
- B. 300
- C. 270
- D. 310
- E. 290

42. यदि दिसंबर में स्टोर A और B द्वारा एक साथ बेची जाने वाली तकियों की कुल संख्या जुलाई से 15% से कम है, तो स्टोर A और B द्वारा दिसंबर में बेची जाने वाली तकियों की कुल संख्या कितनी है?

- A. 468
- B. 456
- C. 436
- D. 442
- E. 454

43. एक दुकानदार ने दो किस्मों के चावल 24 रुपये / कि.ग्रा और x रुपये / कि.ग्रा को 2: 3 के अनुपात में मिलाया और मिश्रण को 20% लाभ पर 29.88

रुपये/ कि.ग्रा की दर पर बेचा। X रुपये/ कि.ग्रा. का मान ज्ञात करें?

- A. 25
- B. 25.5
- C. 27
- D. 30
- E. इनमें से कोई नहीं

निर्देश : जानकारी को ध्यान से पढ़ें और नीचे दी गई जानकारी के आधार पर निम्नलिखित प्रश्नों के उत्तर दें।

A और B एक कार्य को 18 दिनों में पूरा कर सकते हैं जबकि B और C इसी कार्य को 14 दिनों में पूरा कर सकते हैं। यदि C की दक्षता B की तुलना में 40% अधिक है।

44. 8 नीले, 5 पीले और 7 लाल गेंद हैं। 1 पीले या लाल गेंद को चुनने की प्रायिकता क्या होगी?

- A. 2/3
- B. 3/4
- C. 4/5
- D. 3/5
- E. 1/2

45. दो पाइप A और B क्रमशः 60 घंटे और 40 घंटे में एक टैंक को भर सकते हैं। पाइप C टैंक को 15 घंटे में खाली कर सकता है। यदि पाइप A और B को 12 घंटे के लिए खोला जाता है तो पाइप C को भी खोला जाता है। कितने घंटों के बाद, टैंक खाली हो जाएगा?

- A. 15 घंटे
- B. 20 घंटे
- C. 12.5 घंटे
- D. 10 घंटे
- E. इनमें से कोई नहीं

46. पानी और दूध के 96 लीटर मिश्रण में, पानी केवल 40% है। दूधवाला मिश्रण का 12 लीटर ग्राहक

को देता है और फिर मिश्रण में 10 लीटर शुद्ध दूध और 15 लीटर पानी मिलाता है। अंतिम मिश्रण में पानी का अनुमानित प्रतिशत क्या है?

- A. 47
- B. 33
- C. 45
- D. 42
- E. 38

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर X और Y में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा X और Y के बीच संबंध निर्धारित करना होगा।

47. I.  $3x^2 + 23x + 42 = 0$

II.  $y^2 - 42y + 437 = 0$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर X और Y में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा X और Y के बीच संबंध निर्धारित करना होगा।

48. I.  $x^2 + 6x - 135 = 0$

II.  $y^2 + 10y - 144 = 0$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर X और Y में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा X और Y के बीच संबंध निर्धारित करना होगा।

49.  $x^2 = 144$

$$Y^3 = 1728$$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर  $X$  और  $Y$  में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा  $X$  और  $Y$  के बीच संबंध निर्धारित करना होगा।

$$50. x^2 = 25$$

$$y^2 - 1 = 8$$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर  $X$  और  $Y$  में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा  $X$  और  $Y$  के बीच संबंध निर्धारित करना होगा।

$$51. x^2 - 10x + 24 = 0$$

$$y^2 - 12y + 35 = 0$$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश : निम्नलिखित प्रश्न में दो समीकरण चर  $X$  और  $Y$  में दिए गए हैं। आपको इन समीकरणों को हल करना होगा तथा  $X$  और  $Y$  के बीच संबंध निर्धारित करना होगा।

$$52. 2x^2 - 19x + 45 = 0$$

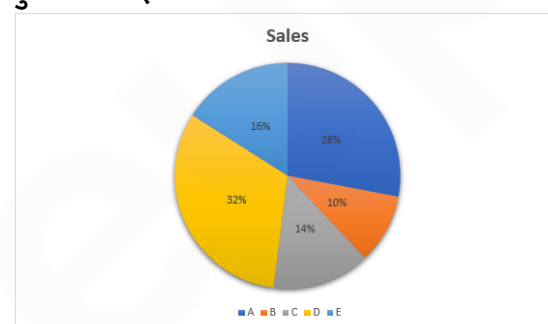
$$y^2 - 11y + 30 = 0$$

- A.  $X > Y$
- B.  $X < Y$
- C.  $X \geq Y$
- D.  $X \leq Y$
- E.  $X=Y$  or No relation can be established

निर्देश (53 - 57) : पाई-चार्ट का ध्यानपूर्वक अध्ययन करें और निम्नलिखित प्रश्नों के उत्तर दें:

नीचे दिया गया पाई चार्ट वर्ष 2003 में 5 दुकानों द्वारा बेची गई शर्ट की कुल संख्या को दर्शाता है।

कुल बेची गई शर्ट = 2800



53. स्टोर D ने फॉर्मल और कैसुअल केवल दो प्रकार के शर्ट बेचे। यदि स्टोर D द्वारा बेची जाने वाली फॉर्मल शर्ट की संख्या का औसत 664 है, तो स्टोर D द्वारा बेची गई फॉर्मल और कैसुअल शर्ट की संख्या के बीच का संबंधित अनुपात क्या होगा?

- A. 83 : 27
- B. 83 : 21
- C. 83 : 31
- D. 83 : 29
- E. 83 : 19

54. यदि 2003 और 2004 में स्टोर C द्वारा बेची गई शर्ट की औसत संख्या 343 है, तो 2004 में स्टोर C द्वारा बेची गई शर्ट की संख्या 2003 में इसी स्टोर द्वारा बेची गई शर्ट की संख्या से कितने प्रतिशत कम है?

- A. 20%
- B. 35%

- C. 30%  
D. 15%  
E. 25%

55. A और B द्वारा बेची जाने वाली शर्ट की संख्या के बीच का अंतर कितना है?

- A. 518  
B. 498  
C. 516  
D. 496  
E. 504

56. D द्वारा बेचे जाने वाले शर्ट की संख्या के लिए केंद्रीय कोण क्या होगा?

- A.  $120.8^\circ$   
B.  $112.4^\circ$   
C.  $108.6^\circ$   
D.  $124.4^\circ$   
E.  $115.2^\circ$

57. E द्वारा बेची गई शर्टों की संख्या में 2003 से 2004 तक 50% की वृद्धि हुई और 2004 से 2005 तक 25% की कमी हुई। 2005 में E द्वारा बेची गई शर्ट की संख्या कितनी है?

- A. 504  
B. 488  
C. 516  
D. 498  
E. 518

58. राज अपने मासिक वेतन का 60% अपनी पत्नी को देता है और शेष उसने म्यूचुअल फंड में निवेश किया है। उसकी पत्नी को मिले पैसों में से उसने 20% किराने के सामान, 30% किराए पर और 18,000 रुपये की शेष राशि उसने सोना खरीदने में खर्च की। राज का मासिक वेतन क्या है?

- A. 50,000 रुपये  
B. 76,000 रुपये

- C. 40,000 रुपये  
D. 60,000 रुपये  
E. 80,000 रुपये

59. 4 साल पहले A और B की आयु का अनुपात 5: 3 है। A, B और C की वर्तमान आयु का योग 80 वर्ष है। यदि C की वर्तमान आयु A और B की वर्तमान आयु के योग के बराबर है, तो A की वर्तमान आयु क्या है?

- A. 24 वर्ष  
B. 20 वर्ष  
C. 22 वर्ष  
D. 26 वर्ष  
E. 18 वर्ष

**निर्देश (60 - 65) :** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और दिए गए प्रश्नों के उत्तर दें।

तालिका में, 10<sup>वीं</sup> कक्षा में कुल छात्र और छात्राओं का विवरण दिया गया है।

School	Total number of students (Male + Female)	Number of students (Male + Female) in class 10	Number of females in Class 10
A	250	48	12
B	480	64	10
C	360	80	25

60. स्कूल C में, 10<sup>वीं</sup> कक्षा के अलावा अन्य कक्षाओं में छात्राओं की संख्या 101 है। स्कूल C में कितने प्रतिशत छात्राएं हैं?

- A. 30%  
B. 46%  
C. 26%  
D. 40%  
E. 35%

61. 10<sup>वीं</sup> कक्षा में स्कूल A और स्कूल B के छात्रों की संख्या में कितना अंतर है?

- A. 12  
B. 18  
C. 11  
D. 16

E. 5

62. स्कूल A में, केवल तीन कक्षाएँ हैं 8<sup>वीं</sup>, 9<sup>वीं</sup> और 10<sup>वीं</sup> हैं। यदि कक्षा 8<sup>वीं</sup> और कक्षा 9<sup>वीं</sup> में छात्रों और छात्राओं की संख्या के बीच संबंधित अनुपात 55: 46 है। तो 8<sup>वीं</sup> कक्षा में छात्रों और छात्राओं की संख्या कितनी है?

- A. 56
- B. 165
- C. 110
- D. 132
- E. 99

63. स्कूल B में, कक्षा 10 के अलावा अन्य कक्षाओं में छात्रों और छात्राओं की संख्या कक्षा 10 में छात्रों और छात्राओं की संख्या से कितने % अधिक है?

- A. 560
- B. 550
- C. 660
- D. 650
- E. 450

64. स्कूल C की कक्षा 10 में छात्रों और छात्राओं की संख्या और स्कूल B की सभी कक्षाओं के कुल छात्रों और छात्राओं की संख्या के बीच का अनुपात क्या होगा?

- A. 1 : 8
- B. 1 : 9
- C. 1 : 4
- D. 1 : 6
- E. 1 : 16

65. स्कूल A और B की कक्षा 10 के विद्यार्थियों की औसत संख्या कितनी है?

- A. 56
- B. 58
- C. 55
- D. 52

E. 54

**Direction (66 – 70) :** Read the following information carefully to give the answer of the questions based on it.

Six people J, K, L, M, N and O are sitting around a circular table facing the centre. They like different colours i.e. pink, red, green, blue, white and yellow. N is an immediate neighbour of the one who likes red. K is sitting second to the right of N. One person sits between K and the one who likes yellow (either from the right or left side). N neither likes yellow nor red. Only two people are sitting between the one who likes yellow and L. J sits third to the right of the one who likes pink. J neither likes yellow nor red. Only one person sits between J and the one who likes white (either from the right or left side). O sits to the immediate left of the one who likes green.

66. Who among the following likes green colour?

- A. L
- B. K
- C. J
- D. O
- E. M

67. What is the position of J with respect to the one who likes blue?

- A. Immediate right
- B. Second to the left
- C. Second to the right
- D. Immediate left
- E. None of these

68. How many people are sitting between the one who likes pink and M when counted from the left of M?

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

69. Who sits third to the left of O?

- A. The one who likes red
- B. K
- C. The one who likes green
- D. N
- E. The one who likes blue

70. Which of the following statement is true about M and L?

- A. M sits second to the left of L.
- B. There are two people between M and L.
- C. No one sits between M and L.
- D. L sits second to the right of M.
- E. None of the above.

**Direction (71 – 74) :** In the following questions assuming the given statement to be true, find which of the conclusion(s) among given conclusions is/are definitely true and then give your answers accordingly.

71. **Statement:**

$$A > B \leq C < D; F < C \leq E < R$$

**Conclusions:**

- I.  $R > D$
- II.  $F < A$
- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either conclusion I or II follows
- D. If neither conclusion I nor II follows
- E. If both conclusions I and II follow

72. **Statement:**

$$V \leq W < X = Y \geq T = Z$$

**Conclusions:**

- I.  $Z > X$
- II.  $V < Y$
- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either conclusion I or II follows
- D. If neither conclusion I nor II follows
- E. If both conclusions I and II follow

73. **Statement:**

$$A > B \leq C < D; F < C \leq E < R$$

**Conclusions:**

- I.  $E \geq B$
- II.  $A > D$
- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either conclusion I or II follows
- D. If neither conclusion I nor II follows
- E. If both conclusions I and II follow

74. **Statement:**

$$J \leq R < K = M; T \geq R = Y$$

**Conclusions:**

- I.  $J \leq T$
- II.  $M > Y$

- A. If only conclusion I follows
- B. If only conclusion II follows
- C. If either conclusion I or II follows
- D. If neither conclusion I nor II follows
- E. If both conclusions I and II follow

75. Four of the following five are alike in a certain manner and hence form a group. Find the one which does not belong to that group?

- A. SXTY
- B. CHFK
- C. OTRW
- D. EJHM
- E. LQOT

**Direction (76 – 80):** Read the following information carefully to give the answer of the questions based on it.

Six boxes A, B, C, D, E and F are placed one above the other in a stack. Each box is of a different color. Only two boxes are there between A and B. Black box is kept immediately above B. Only two boxes are kept between Black box and C. C is not kept the bottom. Only one box is kept between C and Yellow colored box. Box B is not Yellow in color. Only two boxes are there Yellow colored box and Green colored box. Green colored box is kept above Yellow colored box. Only one box is kept between Green colored box and Red colored box. D is kept immediately below Red colored box. Only three boxes are there between D and Orange colored box. E is kept above Orange colored box. Blue colored box is kept below E.

76. Four of the following five are alike in a certain way, find the odd one out.

- A. Green – A
- B. Red – E
- C. Black – F
- D. Blue – D
- E. Orange – C

77. Which of the following statements is true?

- A. No box is kept below D
- B. No box is kept between Black box and B
- C. F is kept above C
- D. Only two boxes are there between Orange colored box and A

E. All of the above.

78. How many boxes are there below Blue colored box?

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

79. As many boxes are kept between the Yellow colored box and the Orange colored box as between A and \_\_\_\_.

- A. Blue box
- B. Black box
- C. D
- D. Green Box
- E. B

80. Which box is kept immediately above Red colored box?

- A. E
- B. Blue
- C. Yellow
- D. Green
- E. B

**Direction (81 - 84) :** Study the following data carefully and answer the questions accordingly.

In a certain code language,  
'millenials are driving growth' is written as 'sm fi jq zh',  
'growth of several industries' is written as 'ro el pa fi',  
'several self driving cars' is written as 'dg pa sm hy' and  
'industries experts are hopeful' is written as 'jq ks nt el'.

81. What is the code for 'driving'?

- A. jq
- B. fi
- C. el
- D. sm
- E. zh

82. 'pa jq' stand for which of the following?

- A. several experts
- B. are several
- C. industries self
- D. cars are
- E. growth cars

83. What is the code for 'self'?

- A. zh
- B. jq
- C. Either 'nt' or 'ks'
- D. Either 'el' or 'ro'
- E. Either 'hy' or 'dg'

84. In this language, if 'experts from industries' is coded as 'el ks vr', then in the same language, how 'from hopeful millenials' will be coded?

- A. sm nt hy
- B. ro vr zh
- C. zh ks nt
- D. vr zh nt
- E. vr ro ks

**Direction (85 - 88) :** Study the following information and answer the question that follows.

Five people A, B, C, D and E bought a dress on different occasions. Each person spent a different amount (minimum 1000). C bought a dress immediately after the one who spent 1600 on his dress. Only one person bought a dress between C and D. Only three people bought the dresses between D and the one who bought a dress for 2100. A bought the dress immediately before the one who bought a dress for 4500. The total amount of the dress which A and D bought was 5000. The amount of the dress which B bought is 500 more than that of E. E bought a dress before B

85. Who bought the dress immediately after C?

- A. The one who spent 1600
- B. The one who spent 3400
- C. The one who spent 2100
- D. The one who spent 2600
- E. None of these

86. Find the odd one out.

- A. C - 3400
- B. E - C
- C. B - 1600
- D. B - A
- E. A - E

87. Find the amount of the dress bought by D?

- A. 2100
- B. 4500
- C. 3400
- D. 1600
- E. None of the above

88. Find the difference between amount of the dresses bought by A and E.

- A. 500
- B. 600
- C. 700
- D. 400
- E. 300

**Direction (89 – 91) :** Study the following data carefully and answer the questions accordingly.

P is the sister-in-law of Q. Q has no siblings. S is the father-in-law of Q. S has only one daughter. Only one child of S is married. T is the grandson of S. U is the maternal grandfather of T. V is the son-in-law of U. W is the sibling of V. X is the niece of W.

89. How is W related to T?

- A. Aunt
- B. Father
- C. Uncle
- D. Mother
- E. Can't be determined

90. How is X related to U?

- A. Daughter
- B. Granddaughter
- C. Grandson
- D. Daughter-in-law
- E. None of these

91. If S is married to Y, then how is P related to Y?

- A. Son
- B. Daughter-in-law
- C. Son-in-law
- D. Daughter
- E. Can't be determined

**Direction (92 – 95) :** In each of the questions below are given three statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide

which of the given conclusions logically follow from the given statements disregarding commonly known facts.

**92. Statements:**

All cotton are linens.

No linen is a silk.

All silk are dresses.

**Conclusions:**

I. All cotton can never be silk.

II. All linens being dresses is a possibility.

A. If only conclusion I follows

B. If only conclusion II follows

C. If either conclusion I or II follows

D. If neither conclusion I nor II follows

E. If both conclusions I and II follow

**93. Statements:**

All cards are spades.

Only a few spades are heart.

All hearts are diamond.

**Conclusions:**

I. No card is a diamond.

II. At least some diamonds are cards.

A. If only conclusion I follows

B. If only conclusion II follows

C. If either conclusion I or II follows

D. If neither conclusion I nor II follows

E. If both conclusions I and II follow

**94. Statements:**

Only a few arrivals are departures.

No departure is a holiday.

Only a few holidays are festivals.

**Conclusions:**

I. All arrivals being holiday is a possibility.

II. No festival is a departure.

A. If only conclusion I follows

B. If only conclusion II follows

C. If either conclusion I or II follows

D. If neither conclusion I nor II follows

E. If both conclusions I and II follow

**95. Statements:**

No teacher is a student.

All students are children.

Only a few children are professors.

**Conclusions:**

I. All professors being a student is a possibility.

II. Some teachers are definitely not children.

A. If only conclusion I follows

B. If only conclusion II follows

- C. If either conclusion I or II follows
- D. If neither conclusion I nor II follows
- E. If both conclusions I and II follow

**Direction (96 – 100) :** Read the following information carefully to give the answer of the questions based on it.

14 people are sitting in two rows facing each other. P, Q, R, S, T, U and V are facing south while A, B, C, D, E, F and G are facing north. Only one person sits between D and F. Q sits 2nd to the left of the one facing F. Only two people sit to the left of D. As many people sit to the left of Q as to the right of R. A faces the immediate neighbour of T. U sits 2nd to the right of T. V sits 4th to the left of P. Only two people sit between A and the one who faces R. As many people sit between V and Q as between D and B. G sits to the immediate right of C.

96.

How many people are sitting between B and the one who faces V?

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

97. Which of the following statement is true regarding D and C?

- A. D sits third to the right of C.
- B. D and C are immediate neighbours.
- C. One of D and C is sitting at the end of the row
- D. Three people sit between D and C.
- E. None of these

98. Who sits 3rd to the right of E?

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

99. Who among the following faces S?

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

100. Find the odd one out.

- A. GF
- B. ST
- C. QT
- D. RU
- E. ED

### ###ANSWERS###

1. Ans. D.

The concerned sentence implies what Invasive pests and weeds can do by flying over the border of a country. Among the given option "enter any" can fill the blank appropriately. "Reach" is incorrect as the phrase "reach country" will not convey a coherent sense. We need a determiner for the noun "country". Similarly, the phrase "search for country" will be incorrect. Hence, option D is the correct answer.

2. Ans. E.

Since it has been established that invasive pests can fly over borders, one can infer that it is difficult to stop their entry. Hence, "check", which means to stop or slow the progress of (something, typically something undesirable), is the correct word for the blank.

"Allowing" would convey the opposite meaning of what is intended. "Detecting" does not fit in the context of the passage as we are talking about the invasion of pests that need to be stopped. Option C is grammatically incorrect. Thus, option E is the correct answer.

3. Ans. B.

The concerned sentence expresses that though the invasive pests cannot be stopped from flying over the border or growing gratuitously, they can be prevented from entering through airports and dockyards. The phrasal verb "weed out" means to remove a person or thing that is not suitable or good enough, especially from a group or collection. This fits in the blank appropriately to convey that the airport and the dockyard facilities should be vigilant about the imported grains (and items carried by tourists) entering a country. Thus, option B is the correct answer.

4. Ans. B.

"To let (one's) guard down" means to become less guarded or vigilant; to stop being cautious about potential trouble or danger. The phrase fits well in the fourth blank to imply that Tanzania is less vigilant about the imported agricultural products that carry invasive pests. "Of

late" means recently. Thus, option B is the correct answer.

5. Ans. C.

The sentence prior to one under concern states, "It is difficult to establish how pests and weeds are entering the country". So, we have the context of uncertainty with referencet to the entry pests and weeds. The concerned sentence must take the idea forward. "Inexplicable" means unable to be explained or accounted for. Thus, the word fits in the fifth blank to convey that it is surprising how even the institutional mechanism is unable to probe the invasions. The other words do not fit in the blank.

Hence, option C is the correct answer.

6. Ans. A.

With reference to the context of the passage, the concerned ministry of Tanzania must have probed or investigated the invasion, which it has not done so far. Thus, option A is the correct answer.

7. Ans. A.

The error is in the first part of the sentence.

We need to replace 'business' with 'businesses'. The determiner 'several' implies the context of 'more than two', so we need to use plural noun 'businesses'. So, the correct answer is option A.

8. Ans. D.

The error is in the fourth part of the sentence.

We need to replace 'waiting' with 'wait'. 'Rather than' is used with the infinitive form of a verb to indicate negation as a contrary choice or wish. The base form of the verb in the sentence is 'wait'.

So, the correct answer is option D.

9. Ans. D.

The error is in the fourth part of the sentence.

We need to replace 'company' with 'companies'. The use of the plural auxiliary verb 'are' indicates the requirement of plural subject 'companies', in accordance to the rule of subject verb agreement.

So, the correct answer is option D.

10. Ans. A.

The error is in the first part of the sentence.

We need to replace 'has' with 'have'. Plural subject 'Psychologists' should be accompanied by plural auxiliary verb 'have' in accordance with the rule of subject-verb agreement.

So, the correct answer is option A.

11. Ans. D.

The error is in the fourth part of the sentence.

We need to replace 'we want to accomplishing' with 'what we want to accomplish'.

So, the correct answer is option D.

12. Ans. B.

The error is in the second part of the sentence.

We need to replace 'few imagine' with 'few could imagine'.

So, the correct answer is option B.

13. Ans. E.

The phrase "dire straits" means in a very bad or difficult situation. Thus, option E is the correct answer.

14. Ans. C.

All the given statements are incorrect with reference to the given passage.

1. Option A is not mentioned in the passage.

2. Since country X has sent missions on the moon, it cannot be said that it lags behind other countries in every field of science and technology. Hence option B is incorrect.

4. The passage states the opposite of what has been stated in option D.

5. Option E also states the opposite of what has been stated in the passage.

Thus, option C is the correct answer.

15. Ans. A.

Refer to the following lines of the passage, "Most people assume that 5G will provide faster speeds than 4G, which bypasses the hinterland and works only **patchily** in the urban area, **but that would be a gross simplification.**"

Here, it is implied that the reality about 5G is unlike what most people assume it to be. So, the "gross simplification" in this case is the belief that 5G technology is

just about improved speed and connectivity. So, with reference to this context, the author wants to convey that it is foolish to consider 5G technology in this way and that it is a lot more than that.

16. Ans. C.

Refer to the following sentences of the passage:

a. "Worse, although the domestic firms are expected to start their three-month-long trial shortly, it is worth remembering that the industry is in dire straits with **huge debts and has indicated that it would be in no position to bid for 5G spectrum.** This implies that the telecom companies of company X are in bad shape financially.

b. "...those who own the intellectual property (IP), primarily the standard essential patents, will become the market leaders in a technology that will reshape the future.... Nor does country X have the kind of resources that China is investing in 5G apart from the **sharp research effort** on it." Patenting is all about inventing a product after carrying out research. According to the passage, country X definitely experiences a slow pace of research in the field of 5G technology.

c. Since country X has sent missions on the moon, one cannot say that it is economically backward.

Thus, option C is the correct answer.

17. Ans. C.

"Patchily" means unevenly or inadequately. Thus, "consistently" is opposite in meaning to the word.

18. Ans. A.

According to the last line of the passage, "As country X obsesses about its technological expertise in a mythical past, the future is looking decidedly dim." Option (a) implies the same. The other two options are not discussed in the passage. Thus, option A is the correct answer.

19. Ans. C.

The concerned context states how Chinese firms command the lion's share of patents among the clutch of global firms that own IP in 5G. So, obviously,

the company which is its star performer would "continue" to surge ahead. Hence, option C is the correct answer.

20. Ans. A.

Words placed at 1 & 4 need to be mutually exchanged. Also, words placed at 2 & 3 need to be mutually exchanged to make the sentence grammatically and contextually correct.

'Carry' at 1 is contextually incorrect as the word alone implies the sense of moving something from a place to another. 'Restrict' means 'to put a limit on something' which is appropriate in the context of 'the illicit sale of liquor'. 'Carry' fits contextually at 4.

'Areas under limit' is absurd. 'Prohibition' means the action of forbidding something, especially by law. Thus at 2 we need to use 'prohibition' and at 3 'limit' is appropriate.

So, the correct answer is option A.

21. Ans. C.

At 3, the use of the article 'a' before the plural noun 'layoffs' is erroneous and must be exchanged with the singular noun 'scenario' placed at 4. As per the context of the sentence, people despite being ill, feel obliged to go to work. So, words at 1 & 2 need to be interchanged as well to make the sentence grammatically and contextually correct.

So, the correct answer is option C.

22. Ans. A.

The context of the sense is that corals are easily affected by slight changes, the temperature in the given case. Due to temperature change, their structures change making them more likely to be consumed by some disease. In this regard, 'sensitive' should be used at 1 and 'prone' should be used at 4.

So, the correct answer is option A.

23. Ans. C.

A report is an account given of a particular matter, especially in the form of an official document, after thorough investigation or consideration by an appointed person or body. A report will contain the information required to explain something. So, we need to use 'report' at 1. A restricted form of diet having an effect on molecular

mechanisms is contextually correct. So, 1 & 3 need to be exchanged.

So, the correct answer is option C.

24. Ans. E.

Pursued means to follow or chase (someone or something). Hounded means to harass, persecute, or pursue relentlessly. The context of the given sentence implies that because the minister was not paying the taxes, authorities were following him. So, 'Pursued' and 'Hounded' fit appropriately. So, the correct answer is option E.

25. Ans. D.

The word 'rigours' means harsh and demanding conditions. In this context, the only possible words are 'survived' (manage to keep going in difficult circumstances) and 'endured' (remain in existence; last).

So, the correct answer is option D.

26. Ans. B.

In the context of a healthcare challenge, the only possible word that meaningfully completes the sentence is 'serious' which means significant or worrying because of possible danger or risk. 'Seldom' (not often; rarely) and 'sincere' (free from pretence or deceit; proceeding from genuine feelings) do not fit in the sentence.

So, the correct answer is option B.

27. Ans. B.

The error in the highlighted part is that of the inappropriate use of correlative conjunction 'not only..but also'. The modal 'can' should come before 'not only' to maintain parallelism in the sentence, as the non-highlighted part 'but also improve' contains verb in the base form without any auxiliary.

So, the correct answer is option B.

28. Ans. D.

The use of 'since' in the statement indicates the requirement of present perfect tense. We know the present perfect gives the idea of completion while the present perfect continuous suggests that something is unfinished. In the given statement the issue is still rife, so we need to use present perfect continuous tense i.e. the structure 'has been facing a'.

So, the correct answer is option D.

29. Ans. B.

The error in the highlighted part is that of the inappropriate use of noun 'representation' and the preposition 'for'. We have the adjective 'unlikely', which needs to be followed by an appropriate noun. 'Representative' meaning 'an example of a class or group' is the appropriate noun. The preposition 'for' needs to be replaced by 'to' so as to complete the 'to-infinitive' structure and provide the context of 'a purpose'.

So, the correct answer is option B.

30. Ans. E.

The sentence is grammatically correct.

So, the correct answer is option E.

31. Ans. E.

$$48 + 15 = 63$$

$$63 - 11 = 52$$

$$52 + 15 = 67$$

$$67 - 11 = 56$$

$$56 + 15 = 71$$

32. Ans. E.

$$17 + (6 \times 2) = 29$$

$$29 + (6 \times 4) = 53$$

$$53 + (6 \times 8) = 101$$

$$101 + (6 \times 16) = 197$$

$$197 + (6 \times 32) = 389$$

33. Ans. B.

$$\begin{array}{cccccc} 15 & 24 & 52 & 117 & 243 & 460 \\ \hline 9 & 28 & 65 & 126 & 217 & \\ \hline 2^3+1 & 3^3+1 & 4^3+1 & 5^3+1 & 6^3+1 & \end{array}$$

34. Ans. A.

$$\begin{array}{cccccc} 16 & 21 & 31 & 45 & 62 & 81 \\ \hline 5 & 10 & 14 & 17 & 19 & \\ \hline 5 & 4 & 3 & 2 & & \end{array}$$

35. Ans. A.

$$\begin{array}{cccccc} 6 & 11 & 27 & 86 & 349 & 1250 \\ \hline x1+5 & x2+5 & x3+5 & x4+5 & x5+5 & \end{array}$$

36. Ans. A.

$$\begin{array}{cccccc} 5 & 14 & 78 & 103 & 319 & 368 \\ \hline 9=3^2 & 64=4^3 & 25=5^2 & 216=6^3 & 49=7^2 & \end{array}$$

37. Ans. E.

$$\text{Required ratio} = (360+280) : (270+170) \\ = 640:440 = 16:11$$

38. Ans. A.

number of pillows sold by A & B together in May = 460

number of pillows sold by A & B together in August =  $460+230 = 690$

39. Ans. A.

number of pillows sold by A in March =  $280 = 7$  units(given)

So, 11 units = 440 = number of pillows sold by A in February

number of pillows sold by B in April =  $390 = 13$  units(given)

So, 9 units = 270 = number of pillows sold by B in February

$$\text{Difference} = 440-270 = 170$$

40. Ans. A.

$$\text{Required \%} = (360-220)*100/220 =$$

$$63\frac{7}{11}$$

41. Ans. E.

average number of pillows sold by B in March, April & June =  $(310+390+170)/3 = 290$

42. Ans. D.

number of pillows sold by A & B together in July =  $(280+240) = 520$

number of pillows sold by A & B together in December =  $520*(100-15)/100 = 442$

43. Ans. B.

$$\text{CP of mixture} = 29.88 \times \frac{100}{120}$$

$$= 24.9 \text{ Rs kg.}$$

By Alligation,

$$\begin{array}{ccc} \text{I} & & \text{II} \\ 24 & & x \\ & \searrow & \nearrow \\ & 24.9 & \\ & \nearrow & \searrow \\ 2 & & 3 \end{array}$$

$$\text{By solving, } x = 25.5$$

44. Ans. D.

probability of choosing either 1 yellow or red ball =  $(7+5)/(8+7+5) = 12/20 = 3/5$

45. Ans. B.

Let capacity of tank = 120 units

capacity of A =  $120/60 = 2$  unit/hr

capacity of B =  $120/40 = 3$  unit/hr

capacity of C =  $120/15 = 8$  unit/hr

In 12 hrs., A & B will fill  $12*(2+3) = 60$  units

Tank will be emptied after  $60/(2+3-8) = 20$  hrs.

46. Ans. C.

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$$\begin{array}{l} \text{Water} = 96 \times \frac{40}{100} = 38.4 \text{ lit} \\ \text{Milk} \quad \quad \quad \text{Water} \\ 87.6 \quad \quad \quad 38.4 \Leftrightarrow 3:2 \\ \downarrow -12 \times \frac{3}{5} = -7.2 \quad \downarrow -12 \times \frac{2}{5} = -4.8 \\ 50.4 \quad \quad \quad 33.6 \\ \downarrow +10 \quad \quad \quad \downarrow +15 \\ 60.4 \quad \quad \quad 48.6 \end{array}$$

$$\text{Required \%} = \frac{48.6}{109} \times 100 = 44.58 \approx 45 \%$$

47. Ans. B.

I.  $3x^2 + 23x + 42 = 0$

$3x^2 + 14x + 9x + 42 = 0$

$x(3x+14) + 3(3x+14) = 0$

$(x+3)(3x+14) = 0$

$$\begin{array}{r} -14 \\ -3 \\ \hline \end{array}$$

$X = -3, -\frac{14}{3}$

II.  $y^2 - 42y + 437 = 0$

$y^2 - 19y - 23y + 437 = 0$

$y(y-19) - 23(y-19) = 0$

$(y-23)(y-19) = 0$

$Y = 23, 19$

Hence, option B is correct.

48. Ans. E.

I.  $x^2 + 6x - 135 = 0$

$x^2 - 9x + 15x - 135 = 0$

$x(x-9) + 15(x-9) = 0$

$(x+15)(x-9) = 0$

$X = -15, 9$

II.  $y^2 + 10y - 144 = 0$

$y^2 + 18y - 8y - 144 = 0$

$y(y+18) - 8(y+18) = 0$

$(y-8)(y+18) = 0$

$Y = 8, -18$

Hence, option E is correct.

49. Ans. D.

$x^2 = 144$

$x = 12, -12$

$Y^3 = 1728$

$Y = 12$

So,  $X \leq Y$

50. Ans. E.

$x^2 = 25$

$x = 5, -5$

$y^2 - 1 = 8$

$y^2 = 9$

$y = 3, -3$

No relation can be established

51. Ans. E.

$x^2 - 10x + 24 = 0$

$x^2 - 6x - 4x + 24 = 0$

$x = 6, 4$

$y^2 - 12y + 35 = 0$

$y^2 - 5y - 7y + 35 = 0$

$y = 5, 7$

No relation can be established

52. Ans. D.

$2x^2 - 19x + 45 = 0$

$2x^2 - 10x - 9x + 45 = 0$

$x = 4.5, 5$

$y^2 - 6y - 5y + 30 = 0$

$y = 6, 5$

$X \leq Y$

53. Ans. D.

number of shirts by D = 32% of 2800 = 896

number of casual shirts by D = 896 - 664 = 232

Required ratio = 664 : 232 = 83:29

54. Ans. E.

number of shirts sold by C in 2003 = 14% of 2800 = 392

Total number of shirts sold by C in 2003 & 2004 = 343\*2 = 686

So, number of shirts sold by C in 2004 = 686 - 392 = 294

Required % =  $\frac{(392-294) \times 100}{392} = 25\%$

55. Ans. E.

Required difference = (28-10)% of 2800 = 504

56. Ans. E.

$100\% = 360^\circ$

So, 32% = 115.2°

57. Ans. A.

Number of shirts sold by E in 2004 =  $2800 \times \frac{16}{100} \times \frac{150}{100} = 672$

Number of shirts sold by E in 2005 =  $672 \times \frac{75}{100} = 504$

58. Ans. D.

Let total amount Raj has = 100%

Wife will get 60%, out of these she spent 50%.

So, remaining amount =  $\frac{1}{2} \times 60\% = 30\%$

$30\% = 18000$

So, 100% = 60000

59. Ans. A.

Present age of A =  $5x+4$

Present age of B =  $3x+4$

Present age of C =  $5x+4 + 3x+4$

$5x+4 + 3x+4 + 5x+4 + 3x+4 = 80$

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or,  $x = 4$

So, Present age of A =  $5x + 4 = 24$

60. Ans. E.

Total number of female students in school

$C = 101 + 25 = 126$

Required % =  $126/360 \times 100 = 35\%$

61. Ans. B.

male students in class 10 of school A =

$48 - 12 = 36$

male students in class 10 of school B =

$64 - 10 = 54$

Difference =  $54 - 36 = 18$

62. Ans. C.

number of students in class 10 = 48

number of students in class 8<sup>th</sup>, 9<sup>th</sup> =  $250 -$

$48 = 202$

So, number of students in class 8<sup>th</sup> =

$202 \times 55/101 = 110$

63. Ans. B.

In school B, the number of students (male

+ female) in classes other than class 10

=  $480 - 64 = 416$

number of students (male + female) in

class 10 = 64

Required % =  $(416 - 64) \times 100/64 = 550$

64. Ans. D.

number of students (male + female) in

class 10 of school C = 80

total number of students (male + female)

in all class together of school B = 480

Ratio =  $80:480 = 1:6$

65. Ans. A.

average number of students (male +

female) in class 10 of schools A and B =

$48 + 64/2 = 56$

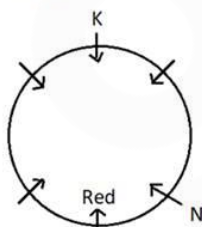
66. Ans. C.

**People:** J, K, L, M, N and O.

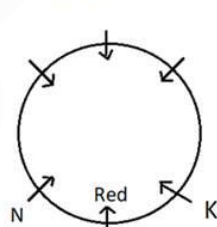
1) N is an immediate neighbour of the one who likes red.

2) K is sitting second to the right of N.

Case I



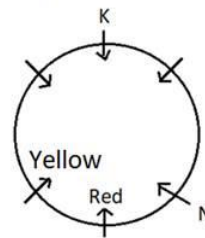
Case II



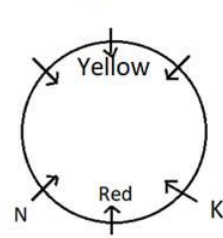
3) One person sits between K and the one who likes yellow (either from the right or left side).

4) N neither likes yellow nor red.

Case I

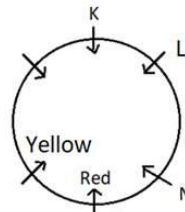


Case II

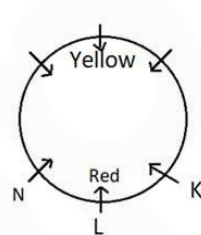


5) Only two people are sitting between the one who likes yellow and L.

Case I



Case II

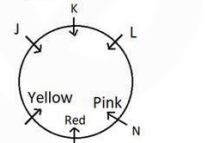


6) J sits third to the right of the one who likes pink.

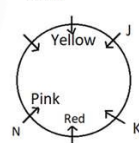
7) J neither likes yellow nor red.

(Hence, three cases will be there)

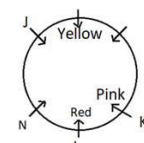
Case I



Case II

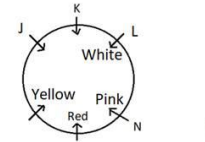


Case III

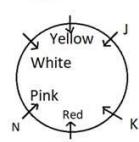


8) Only one person sits between J and the one who likes white (either from the right or left side).

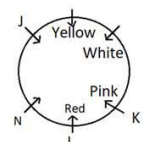
Case I



Case II

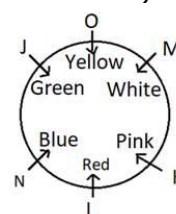


Case III



9) O sits to the immediate left of the one who likes green.

(Hence, Case I and Case II will be eliminated)



Hence, J likes green colour.

67. Ans. D.

**People:** J, K, L, M, N and O.

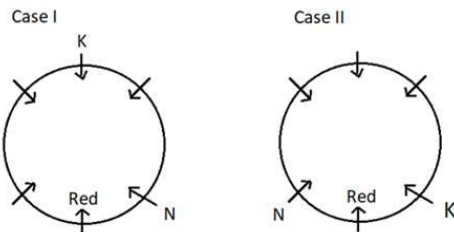
1) N is an immediate neighbour of the one who likes red.

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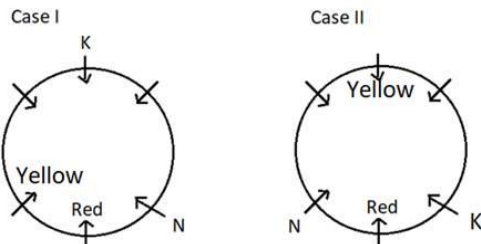
CLICK HERE

2) K is sitting second to the right of N.

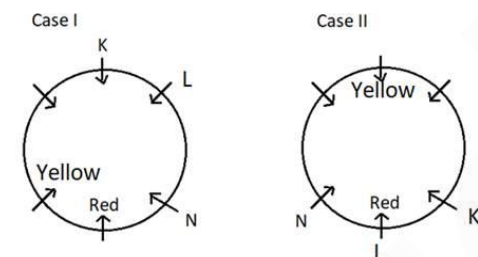


3) One person sits between K and the one who likes yellow (either from the right or left side).

4) N neither likes yellow nor red.

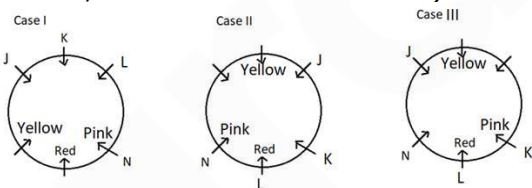


5) Only two people are sitting between the one who likes yellow and L.

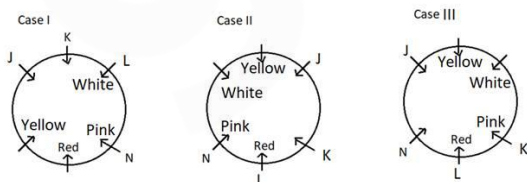


6) J sits third to the right of the one who likes pink.

7) J neither likes yellow nor red.  
(Hence, three cases will be there)

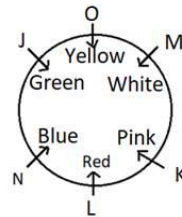


8) Only one person sits between J and the one who likes white (either from the right or left side).



9) O sits to the immediate left of the one who likes green.

(Hence, Case I and Case II will be eliminated)



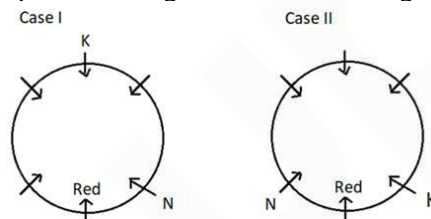
Clearly, J sits to the immediate left of the one who likes blue.

68. Ans. B.

**People:** J, K, L, M, N and O.

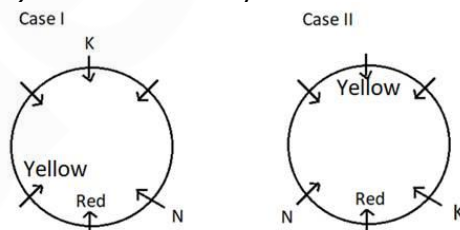
1) N is an immediate neighbour of the one who likes red.

2) K is sitting second to the right of N.

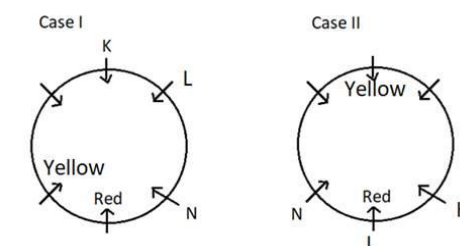


3) One person sits between K and the one who likes yellow (either from the right or left side).

4) N neither likes yellow nor red.



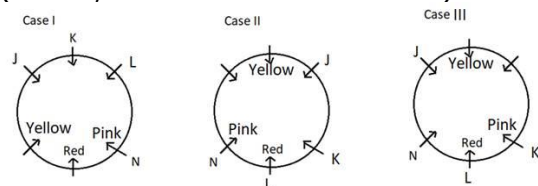
5) Only two people are sitting between the one who likes yellow and L.



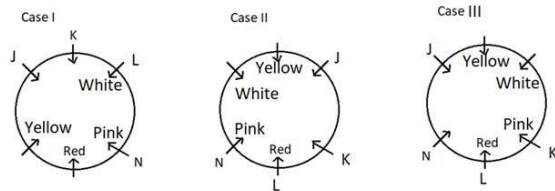
6) J sits third to the right of the one who likes pink.

7) J neither likes yellow nor red.

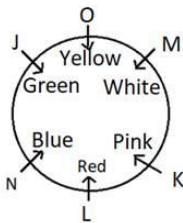
(Hence, three cases will be there)



8) Only one person sits between J and the one who likes white (either from the right or left side).



9) O sits to the immediate left of the one who likes green.  
(Hence, Case I and Case II will be eliminated)



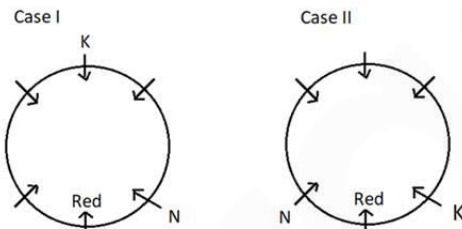
Clearly, no one sits between the one who likes pink and M when counted from the left of M.

69. Ans. A.

**People:** J, K, L, M, N and O.

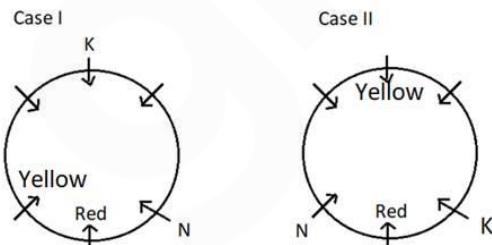
1) N is an immediate neighbour of the one who likes red.

2) K is sitting second to the right of N.

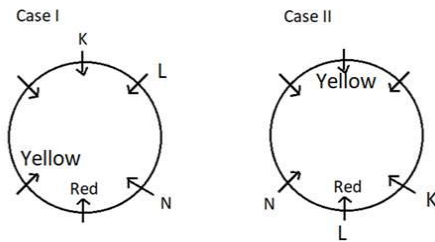


3) One person sits between K and the one who likes yellow (either from the right or left side).

4) N neither likes yellow nor red.



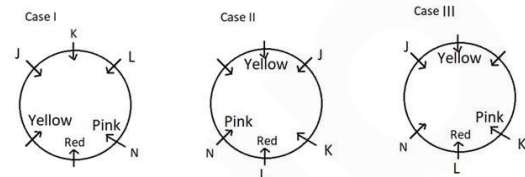
5) Only two people are sitting between the one who likes yellow and L.



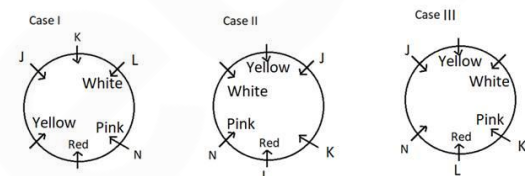
6) J sits third to the right of the one who likes pink.

7) J neither likes yellow nor red.

(Hence, three cases will be there)

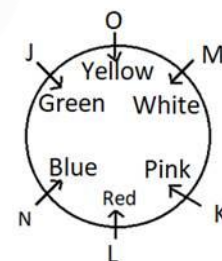


8) Only one person sits between J and the one who likes white (either from the right or left side).



9) O sits to the immediate left of the one who likes green.

(Hence, Case I and Case II will be eliminated)



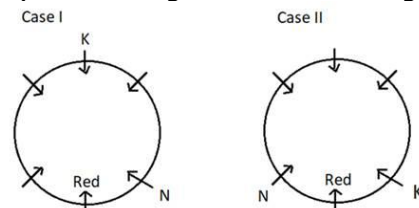
Clearly, the one who likes red sits third to the left of O.

70. Ans. E.

**People:** J, K, L, M, N and O.

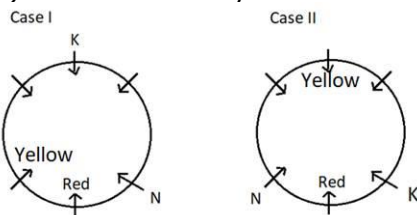
1) N is an immediate neighbour of the one who likes red.

2) K is sitting second to the right of N.

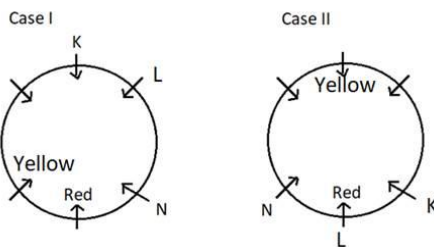


3) One person sits between K and the one who likes yellow (either from the right or left side).

4) N neither likes yellow nor red.



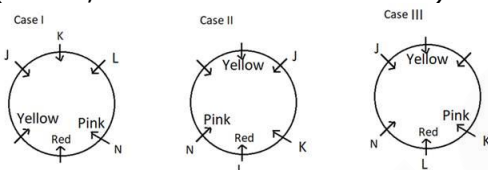
5) Only two people are sitting between the one who likes yellow and L.



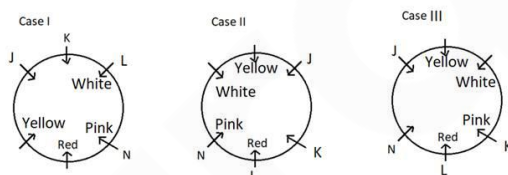
6) J sits third to the right of the one who likes pink.

7) J neither likes yellow nor red.

(Hence, three cases will be there)

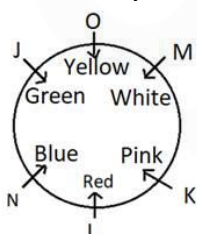


8) Only one person sits between J and the one who likes white (either from the right or left side).



9) O sits to the immediate left of the one who likes green.

(Hence, Case I and Case II will be eliminated)



Clearly, none of the above statements regarding M and L are true.

71. Ans. D.

### Conclusions:

I.  $R > D \rightarrow$  False (as  $D > C \leq E < R \rightarrow$  hence clear relation between R & D cannot be determined)

II.  $F < A \rightarrow$  False (as  $A > B \leq C > F \rightarrow$  hence clear relation between F & A cannot be determined)

72. Ans. B.

### Conclusions:

I.  $Z > X \rightarrow$  False (as  $X = Y \geq T = Z$ )

II.  $V < Y \rightarrow$  True (as  $V \leq W < X = Y$ )

73. Ans. A.

### Conclusions:

I.  $E \geq B \rightarrow$  True (as  $B \leq C \leq E$ )

II.  $A > D \rightarrow$  False (as  $A > B \leq C < D \rightarrow$  hence clear relation between A & D cannot be determined)

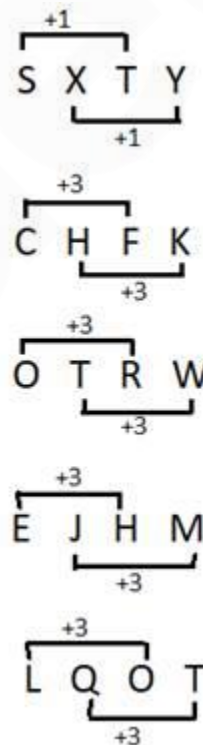
74. Ans. E.

### Conclusions:

(i)  $J \leq T \rightarrow$  True (as  $J \leq R \leq T$ )

(ii)  $M > Y \rightarrow$  True (as  $Y = R < K = M$ )

75. Ans. A.



Clearly, SXTY follows the different pattern from others. Hence, SXTY does not belong to that group.

76. Ans. B.

**Boxes:** A, B, C, D, E and F.

1) Only two boxes are there between A and B.

2) Black box is kept immediately above B.

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**Case I:**

Box	Color
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
A	

3) Only two boxes are kept between Black box and C.

4) C is not kept the bottom.

**Case I:**

Box	Color
C	
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	

5) Only one box is kept between C and Yellow colored box.

6) Box B is not Yellow in color.

**Case I:**

Box	Color
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	
	Yellow

7) Only two boxes are there between Yellow colored box and Green colored box.

8) Green colored box is kept above Yellow colored box.

**Case I:**

Box	Color
	Green
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	
	Yellow

9) Only one box is kept between Green colored box and Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
	Yellow
	Black
B	

**Case II:**

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Box	Color
	Black
B	
	Green
C	
A	Red
	Yellow

10) D is kept immediately below Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
D	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
D	Yellow

11) Only three boxes are there between D and Orange colored box.  
(Hence, Case I will be eliminated)

Box	Color
	Black
B	Orange
	Green
C	
A	Red
D	Yellow

12) E is kept above Orange colored box.

13) Blue colored box is kept below E.

Box	Color
E	Black
B	Orange
F	Green
C	Blue
A	Red
D	Yellow

There are three boxes between red colored box and E whereas there is only one box in between them in other options. Hence, second option is the odd one out.

77. Ans. E.

**Boxes:** A, B, C, D, E and F.

1) Only two boxes are there between A and B.

2) Black box is kept immediately above B.

**Case I:**

Box	Color
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
A	

3) Only two boxes are kept between Black box and C.

4) C is not kept the bottom.

**Case I:**

Box	Color
C	
A	
	Black
B	

**Case II:**

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Box	Color
	Black
B	
C	
A	

5) Only one box is kept between C and Yellow colored box.

6) Box B is not Yellow in color.

**Case I:**

Box	Color
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	
	Yellow

7) Only two boxes are there between Yellow colored box and Green colored box.

8) Green colored box is kept above Yellow colored box.

**Case I:**

Box	Color
	Green
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	
	Yellow

9) Only one box is kept between Green colored box and Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
	Yellow

10) D is kept immediately below Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
D	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
D	Yellow

11) Only three boxes are there between D and Orange colored box.

(Hence, Case I will be eliminated)

Box	Color
	Black
B	Orange
	Green
C	
A	Red
D	Yellow

12) E is kept above Orange colored box.

13) Blue colored box is kept below E.

Box	Color
E	Black
B	Orange
F	Green
C	Blue
A	Red
D	Yellow

Clearly, all the given statements are true.  
78. Ans. D.

**Boxes:** A, B, C, D, E and F.

1) Only two boxes are there between A and B.

2) Black box is kept immediately above B.

**Case I:**

Box	Color
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
A	

3) Only two boxes are kept between Black box and C.

4) C is not kept the bottom.

**Case I:**

Box	Color
C	
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	

5) Only one box is kept between C and Yellow colored box.

6) Box B is not Yellow in color.

**Case I:**

Box	Color
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	
	Yellow

7) Only two boxes are there between Yellow colored box and Green colored box.

8) Green colored box is kept above Yellow colored box.

**Case I:**

Box	Color
	Green
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	
	Yellow

9) Only one box is kept between Green colored box and Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
	Yellow

10) D is kept immediately below Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
D	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
D	Yellow

11) Only three boxes are there between D and Orange colored box.

(Hence, Case I will be eliminated)

Box	Color
	Black
B	Orange
	Green
C	
A	Red
D	Yellow

12) E is kept above Orange colored box.

13) Blue colored box is kept below E.

Box	Color
E	Black
B	Orange
F	Green
C	Blue
A	Red
D	Yellow

Clearly, there are two boxes below Blue colored box.

79. Ans. B.

**Boxes:** A, B, C, D, E and F.

1) Only two boxes are there between A and B.

2) Black box is kept immediately above B.

**Case I:**

Box	Color
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
A	

3) Only two boxes are kept between Black box and C.

4) C is not kept the bottom.

**Case I:**

Box	Color
C	
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	

5) Only one box is kept between C and Yellow colored box.

6) Box B is not Yellow in color.

**Case I:**

Box	Color
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	
	Yellow

7) Only two boxes are there between Yellow colored box and Green colored box.

8) Green colored box is kept above Yellow colored box.

**Case I:**

Box	Color
	Green
C	
A	
	Yellow
	Black
B	

**Case II:**

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Box	Color
	Black
B	
	Green
C	
A	
	Yellow

9) Only one box is kept between Green colored box and Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
	Yellow

10) D is kept immediately below Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
D	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
D	Yellow

11) Only three boxes are there between D and Orange colored box.

(Hence, Case I will be eliminated)

Box	Color
	Black
B	Orange
	Green
C	
A	Red
D	Yellow

12) E is kept above Orange colored box.

13) Blue colored box is kept below E.

Box	Color
E	Black
B	Orange
F	Green
C	Blue
A	Red
D	Yellow

Clearly, there are three boxes between Yellow colored box and the Orange colored box. Following the same pattern, there are three boxes between A and Black colored box.

80. Ans. B.

**Boxes:** A, B, C, D, E and F.

1) Only two boxes are there between A and B.

2) Black box is kept immediately above B.

**Case I:**

Box	Color
A	
	Black
B	

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**Case II:**

Box	Color
	Black
B	
A	

3) Only two boxes are kept between Black box and C.

4) C is not kept the bottom.

**Case I:**

Box	Color
C	
A	
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	

5) Only one box is kept between C and Yellow colored box.

6) Box B is not Yellow in color.

**Case I:**

Box	Color
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
C	
A	
	Yellow

7) Only two boxes are there between Yellow colored box and Green colored box.

8) Green colored box is kept above Yellow colored box.

**Case I:**

Box	Color
	Green
C	
A	
	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	
	Yellow

9) Only one box is kept between Green colored box and Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
	Yellow
	Black
B	

**Case II:**

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Box	Color
	Black
B	
	Green
C	
A	Red
	Yellow

10) D is kept immediately below Red colored box.

**Case I:**

Box	Color
	Green
C	
A	Red
D	Yellow
	Black
B	

**Case II:**

Box	Color
	Black
B	
	Green
C	
A	Red
D	Yellow

11) Only three boxes are there between D and Orange colored box.  
(Hence, Case I will be eliminated)

Box	Color
	Black
B	Orange
	Green
C	
A	Red
D	Yellow

12) E is kept above Orange colored box.

13) Blue colored box is kept below E.

Box	Color
E	Black
B	Orange
F	Green
C	Blue
A	Red
D	Yellow

Clearly, Blue colored box is kept immediately above Red colored box.

81. Ans. D.

Words	Codes
growth	fi
driving	sm
several	pa
are	Jq
millenials	Zh
industries	El
of	Ro
self	dg/hy
cars	hy/dg
experts	ks/nt
hopeful	nt/ks

82. Ans. B.

Words	Codes
growth	fi
driving	sm
several	pa
are	jq
millenials	zh
industries	el
of	ro
self	dg/hy
cars	hy/dg
experts	ks/nt
hopeful	nt/ks

83. Ans. E.

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Words	Codes
growth	fi
driving	sm
several	pa
Are	jq
millenials	zh
industries	el
Of	ro
Self	dg/hy
Cars	hy/dg
experts	ks/nt
hopeful	nt/ks

84. Ans. D.

Words	Codes
growth	fi
driving	sm
several	pa
Are	jq
millenials	zh
industries	el
Of	ro
Self	dg/hy
Cars	hy/dg
experts	ks/nt
hopeful	nt/ks

85. Ans. D.

**People:** A, B, C, D and E.

1) C bought a dress immediately after the one who spent 1600 on his dress.

People	Amount
	1600
C	

2) Only one person bought a dress between C and D.

3) Only three people bought the dresses between D and the one who bought a dress for 2100.

**Case I:**

People	Amount
D	
	1600
C	
	2100

**Case II:**

People	Amount
	2100
	1600
C	
D	

4) A bought the dress immediately before the one who bought a dress for 4500. (Hence, three cases will be feasible)

**Case I:**

People	Amount
D	
A	1600
C	4500
	2100

**Case II:**

People	Amount
	2100
	1600
C	
A	
D	4500

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	

5) The total amount of the dress which A and D bought was 5000.

(Here, case II will be eliminated as the amount of A = 500 and it is given that amount should not be less than 1000)

**Case I:**

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People	Amount
D	3400
A	1600
C	4500
	2100

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	3400

6) The amount of the dress which B bought is 500 more than that of E.

7) E bought a dress before B.

(In Case I, the amount of A and E are equal, and it is given that each people spent a different amount, hence case I will be eliminated)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
E	1600
B	2100

**Case III:**

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

The Final table is as follow:

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

86. Ans. E.

**People:** A, B, C, D and E.

1) C bought a dress immediately after the one who spent 1600 on his dress.

People	Amount
	1600
C	

2) Only one person bought a dress between C and D.

3) Only three people bought the dresses between D and the one who bought a dress for 2100.

**Case I:**

People	Amount
D	
	1600
C	
	2100

**Case II:**

People	Amount
	2100
	1600
C	
D	

4) A bought the dress immediately before the one who bought a dress for 4500.

(Hence, three cases will be feasible)

**Case I:**

People	Amount
D	
A	1600
C	4500
	2100

**Case II:**

People	Amount
	2100
	1600
C	
A	
D	4500

**Case III:**

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People	Amount
	2100
A	1600
C	4500
D	

5) The total amount of the dress which A and D bought was 5000.

(Here, case II will be eliminated as the amount of A = 500 and it is given that amount should not be less than 1000)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
	2100

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	3400

6) The amount of the dress which B bought is 500 more than that of E.

7) E bought a dress before B.

(In Case I, the amount of A and E are equal, and it is given that each people spent a different amount, hence case I will be eliminated)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
E	1600
B	2100

**Case III:**

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

The Final table is as follow:

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

87. Ans. C.

**People:** A, B, C, D and E.

1) C bought a dress immediately after the one who spent 1600 on his dress.

People	Amount
	1600
C	

2) Only one person bought a dress between C and D.

3) Only three people bought the dresses between D and the one who bought a dress for 2100.

**Case I:**

People	Amount
D	
	1600
C	
	2100

**Case II:**

People	Amount
	2100
	1600
C	
D	

4) A bought the dress immediately before the one who bought a dress for 4500.

(Hence, three cases will be feasible)

**Case I:**

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People	Amount
D	
A	1600
C	4500
	2100

**Case II:**

People	Amount
	2100
	1600
C	
A	
D	4500

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	

5) The total amount of the dress which A and D bought was 5000.

(Here, case II will be eliminated as the amount of A = 500 and it is given that amount should not be less than 1000)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
	2100

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	3400

6) The amount of the dress which B bought is 500 more than that of E.

7) E bought a dress before B.

(In Case I, the amount of A and E are equal, and it is given that each people

spent a different amount, hence case I will be eliminated)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
E	1600
B	2100

**Case III:**

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

The Final table is as follow:

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

88. Ans. A.

**People:** A, B, C, D and E.

1) C bought a dress immediately after the one who spent 1600 on his dress.

People	Amount
	1600
C	

2) Only one person bought a dress between C and D.

3) Only three people bought the dresses between D and the one who bought a dress for 2100.

**Case I:**

People	Amount
D	
	1600
C	
	2100

**Case II:**

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People	Amount
	2100
	1600
C	
D	

4) A bought the dress immediately before the one who bought a dress for 4500.  
(Hence, three cases will be feasible)

**Case I:**

People	Amount
D	
A	1600
C	4500
	2100

**Case II:**

People	Amount
	2100
	1600
C	
A	
D	4500

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	

5) The total amount of the dress which A and D bought was 5000.

(Here, case II will be eliminated as the amount of A = 500 and it is given that amount should not be less than 1000)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
	2100

**Case III:**

People	Amount
	2100
A	1600
C	4500
D	3400

6) The amount of the dress which B bought is 500 more than that of E.

7) E bought a dress before B.

(In Case I, the amount of A and E are equal, and it is given that each people spent a different amount, hence case I will be eliminated)

**Case I:**

People	Amount
D	3400
A	1600
C	4500
E	1600
B	2100

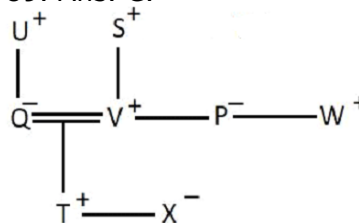
**Case III:**

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

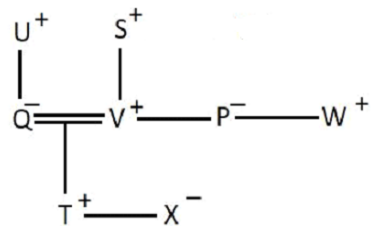
The Final table is as follow:

People	Amount
E	2100
A	1600
C	4500
B	2600
D	3400

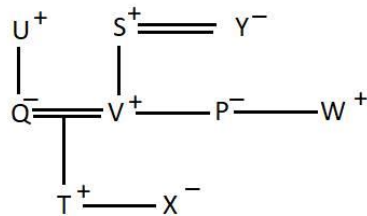
89. Ans. C.



90. Ans. B.

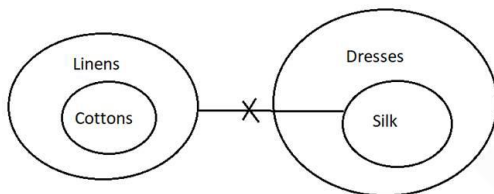


91. Ans. D.



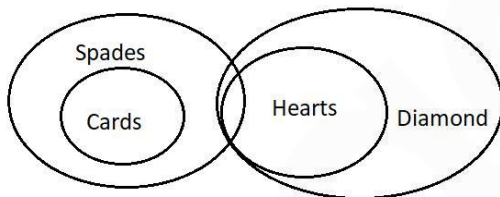
92. Ans. E.

The least possible venn diagram for the given statements is as follows:



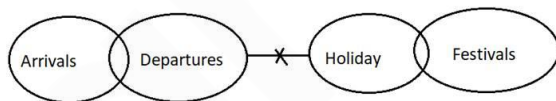
93. Ans. C.

The least possible venn diagram for the given statements is as follows:



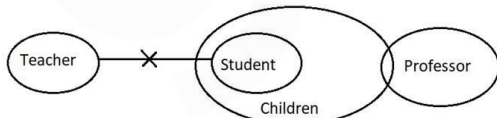
94. Ans. D.

The least possible venn diagram for the given statements is as follows:



95. Ans. A.

The least possible venn diagram for the given statements is as follows:



96. Ans. D.

1) Only two people sit to the left of D.

\_\_\_\_\_ (Facing South)

\_\_\_\_\_ (Facing North)  
D

2) Only one person sits between D and F.  
3) Q sits 2nd to the left of the one facing F.

Case I:

\_\_\_\_\_ (Facing South)  
Q

\_\_\_\_\_ (Facing North)  
D F

Case II:

\_\_\_\_\_ (Facing South)  
Q

\_\_\_\_\_ (Facing North)  
F D

4) As many people sit to the left of Q as to the right of R.

Case I:

\_\_\_\_\_ (Facing South)  
R Q

\_\_\_\_\_ (Facing North)  
D F

Case II:

\_\_\_\_\_ (Facing South)  
Q R

\_\_\_\_\_ (Facing North)  
F D

5) V sits 4th to the left of P.

Case I:

\_\_\_\_\_ (Facing South)  
R P V Q

\_\_\_\_\_ (Facing North)  
D F

Case II:

\_\_\_\_\_ (Facing South)  
P Q R V

\_\_\_\_\_ (Facing North)  
F D

6) U sits 2nd to the right of T.

(Here, Case II will be eliminated)

7) A faces the immediate neighbour of T.

8) Only two people sit between A and the one who faces R.

\_\_\_\_\_ (Facing South)  
R P U T V Q

\_\_\_\_\_ (Facing North)  
D A F

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- 9) As many people sit between V and Q as between D and B.  
10) G sits to the immediate right of C.

R P U S T V Q (Facing South)

E B D A F C G (Facing North)

97. Ans. E.

- 1) Only two people sit to the left of D.

(Facing South)

(Facing North)

- 2) Only one person sits between D and F.

- 3) Q sits 2nd to the left of the one facing F.

Case I:

Q (Facing South)

D F (Facing North)

Casell:

Q (Facing South)

F D (Facing North)

- 4) As many people sit to the left of Q as to the right of R.

Case I:

R Q (Facing South)

D F (Facing North)

Casell:

Q R (Facing South)

F D (Facing North)

- 5) V sits 4th to the left of P.

Case I:

R P V Q (Facing South)

D F (Facing North)

Casell:

P Q R V (Facing South)

F D (Facing North)

- 6) U sits 2nd to the right of T.

(Here, Case II will be eliminated)

- 7) A faces the immediate neighbour of T.

- 8) Only two people sit between A and the one who faces R.

R P U T V Q (Facing South)

D A F (Facing North)

- 9) As many people sit between V and Q as between D and B.

- 10) G sits to the immediate right of C.

R P U S T V Q (Facing South)

E B D A F C G (Facing North)

98. Ans. C.

- 1) Only two people sit to the left of D.

(Facing South)

D (Facing North)

- 2) Only one person sits between D and F.

- 3) Q sits 2nd to the left of the one facing F.

Case I:

Q (Facing South)

D F (Facing North)

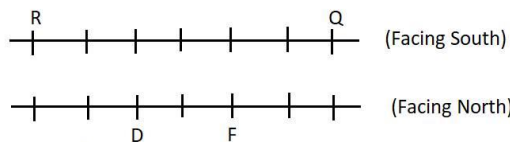
Casell:

Q (Facing South)

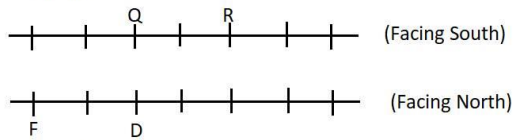
F D (Facing North)

- 4) As many people sit to the left of Q as to the right of R.

Case I:

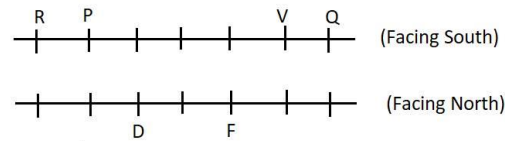


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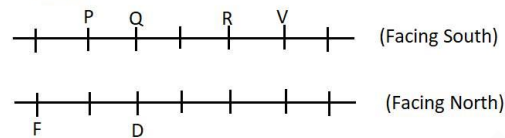


5) V sits 4th to the left of P.

Case I:



Casell:

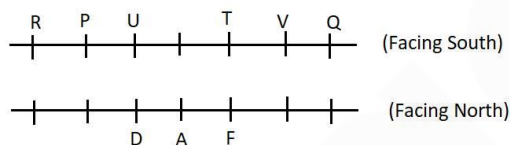


6) U sits 2nd to the right of T.

(Here, Case II will be eliminated)

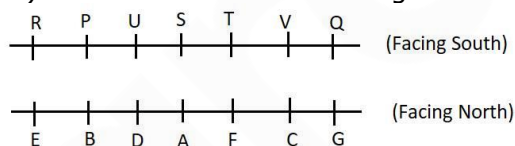
7) A faces the immediate neighbour of T.

8) Only two people sit between A and the one who faces R.



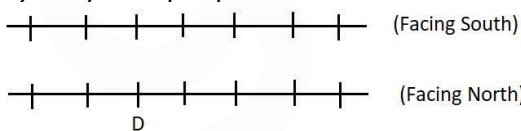
9) As many people sit between V and Q as between D and B.

10) G sits to the immediate right of C.



99. Ans. B.

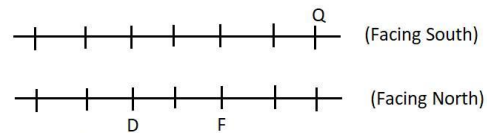
1) Only two people sit to the left of D.



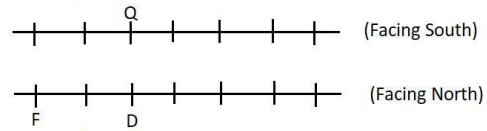
2) Only one person sits between D and F.

3) Q sits 2nd to the left of the one facing F.

Case I:

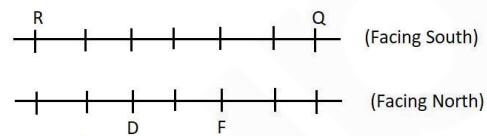


Casell:

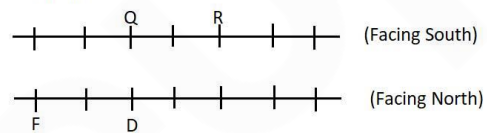


4) As many people sit to the left of Q as to the right of R.

Case I:

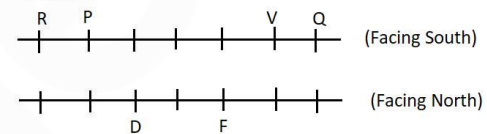


Casell:

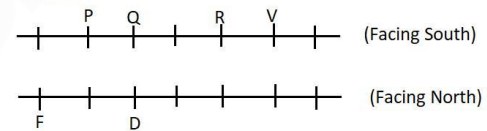


5) V sits 4th to the left of P.

Case I:



Casell:

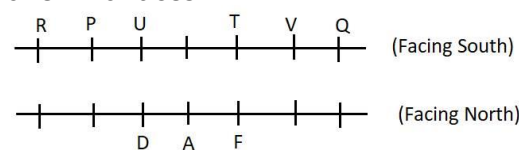


6) U sits 2nd to the right of T.

(Here, Case II will be eliminated)

7) A faces the immediate neighbour of T.

8) Only two people sit between A and the one who faces R.



9) As many people sit between V and Q as between D and B.

10) G sits to the immediate right of C.



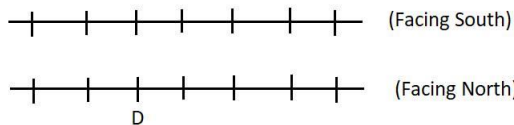
100. Ans. B.

1) Only two people sit to the left of D.

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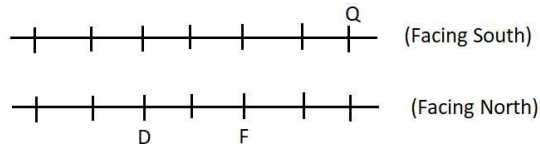
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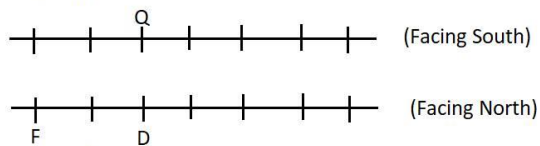


- 2) Only one person sits between D and F.  
3) Q sits 2nd to the left of the one facing F.

Case I:

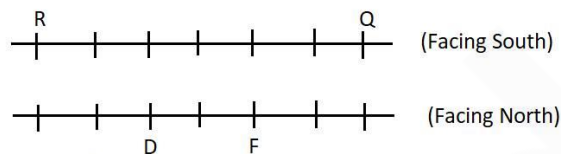


Case II:

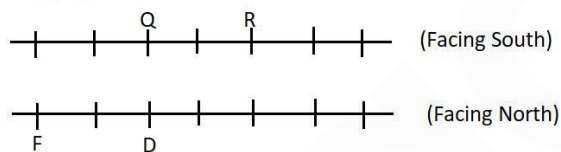


- 4) As many people sit to the left of Q as to the right of R.

Case I:

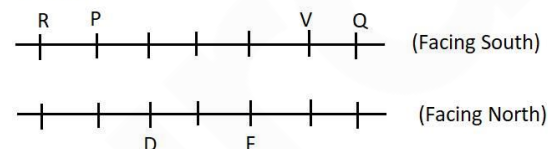


Case II:

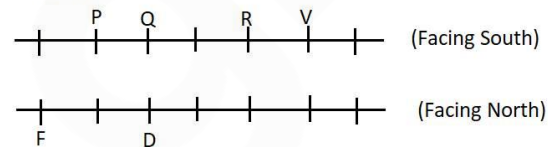


- 5) V sits 4th to the left of P.

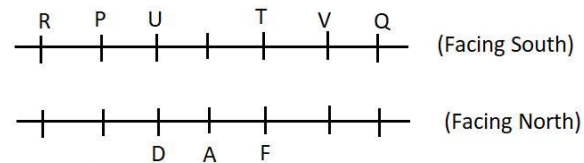
Case I:



Case II:

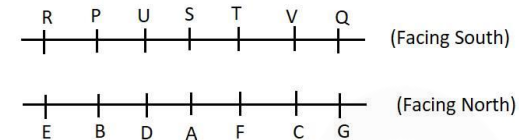


- 6) U sits 2nd to the right of T.  
(Here, Case II will be eliminated)  
7) A faces the immediate neighbour of T.  
8) Only two people sit between A and the one who faces R.



- 9) As many people sit between V and Q as between D and B.

- 10) G sits to the immediate right of C.





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