

**SBI CLERK
PRELIMS 2021**

MEMORY BASED QUESTION PAPER FREE PDF

DAY - 01

SBI CLERK Prelims 2021

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**Memory Based Question
Paper – FREE PDF**

D. 1–8) Read the passage carefully and answer the given questions.

The World Economic Forum predicts that by 2023 there will be a staggering 9.1 billion mobile subscriptions. According to telecom-focused technology company Cisco Systems, by 2020, connected mobile devices will produce 30.6 exabytes per month and annual global mobile data traffic will reach 366.8 exabytes (one exabyte is one quintillion bytes). 5G is designed to meet this demand. It not only represents a generational leap in connectivity speeds, the new network standard will also introduce lower latency (for improved response) and the ability to connect more devices at once.

So, after much 5G hype and excitement, we are finally seeing progress — proof of concepts, field trials, buildouts and early deployments, and 5G is on the cusp of becoming a reality. The question is, what will it deliver?

With traditional telecom revenues in decline, connectivity fast becoming a commodity and customer-trust **diminishing**, much of the focus (and hope) is on delivering new revenues for mobile network operators. Despite the many recognized advantages of 5G, mobile network operators are still looking for concrete evidence of return on investment (RoI). The investment isn't a small one. In fact, it will likely amount to a collective investment of billions of dollars in new network equipment, licences and deployment. So what difference will 5G actually make?

Avoiding the obvious temptation to simply say "Internet of Things" (IoT), here are five 5G-powered use cases — Industry 4.0, mixed reality (MR) applications, which is augmented reality (AR) plus virtual reality (VR), sports and entertainment, fixed wireless access, and autonomous vehicles — that mobile network operators must prepare for.

Like many others, the manufacturing industry is going through a digital revolution. Within the context of Industry 4.0, manufacturers are becoming more efficient through the application of automation and data exchange to their existing factory processes to enable better integrated workflows and smarter manufacturing. Industrial IoT technologies are streamlining and simplifying many manufacturing processes in revolutionary ways. For instance, production robots now have sensors or software that send information to remote teams; some apps can gather real-time feedback and send alerts on defects or damaged goods; and other apps can help track working schedules of factory workers. 5G plays a vital role in this transformative



process, especially as the use of AR and VR applications continues to grow in manufacturing to support the realization of manufacturers' Industry 4.0 goals.

This is followed by MR applications that are likely to be a key driver for 5G. Beyond the consumer market (think *Pokémon Go*), interesting applications are also likely to be found in industrial and medical contexts. Remote medical procedures, engineering, public safety and field-service applications are all strong use case opportunities for the application of low latency 5G services.

5G will also deliver a significantly enhanced experience for audiences at sporting and entertainment events. A combination of VR and AR with ultra high-fidelity enabled by 5G could transform the way fans interact in these events. Motorsports is ideal for VR in particular: equipped with their mobile device or headset, fans could be served information like lap or technical information about cars as they race on the track in a sport like Formula One. The opportunity lies in more than just providing connectivity. Mobile network operators can create partnerships with broadcasters and sports organizations to deliver entertainment services directly to customers through their self-service applications.

1. Which is/are be the probable key driver(s) for 5G as per the passage?

- a) Virtual Reality applications
- b) Entertainment applications
- c) Mixed Reality applications
- d) Augmented Reality applications
- e) All of the above

Ans: c

Exp:

It is mentioned in the passage, "This is followed by MR applications that are likely to be a key driver for 5G. Beyond the consumer market (think *Pokémon Go*), interesting applications are also likely to be found in industrial and medical contexts."

2. Choose the antonym of 'diminishing'.



- a) Declining
- b) Impacting
- c) Growing
- d) Reducing
- e) Sharpening

Ans: c

Exp:

Diminishing – to reduce or be reduced in size or importance

3. Which of the following is true about digital revolution in manufacturing industry as per the passage?

- I. They use automation and data exchange for better workflow.
- II. There is a big role for IoT in simplifying the manufacturing processes.
- III. 5G gives enhanced experience at sporting and entertainment events.

- a) Only I
- b) Only II
- c) Only III
- d) Both I and II
- e) Both II and III

Ans: d

Exp:

It is mentioned in the passage:

Statement I: "Automation and data exchange to their existing factory processes to enable better integrated workflows and smarter manufacturing."

Statement II: "Industrial IoT technologies are streamlining and simplifying many manufacturing processes in revolutionary ways."



Statement III: "5G will also deliver a significantly enhanced experience for audiences at sporting and entertainment events". It is irrelevant as it talks about sporting and entertainment events.

4. Apart from improving connectivity speed, what are the other factors that 5G provides?

- a) Improved response
- b) Increased bandwidth
- c) Connecting more devices at once
- d) Both a and b
- e) Both a and c

Ans: e

Exp:

It is mentioned in the passage, "It not only represents a generational leap in connectivity speeds, the new network standard will also introduce lower latency (for improved response) and the ability to connect more devices at once."

5. Choose a suitable title for the passage from the given options.

- a) Impact of 5G in future
- b) 5G vs Industry 4.0
- c) The jump from 4G
- d) 5G – the significant need
- e) Changing world

Ans: a

Exp:

Option (a) is the suitable title for the given passage as it talks about the increasing demand for connectivity and its wide range applications that impacts the future.

6. When it comes to investment in 5G, what do mobile network operators look for?

- a) Millions of users to make profit
- b) Funds from their sources



- c) Investment in infrastructure for production
- d) Evidence on the return on investment
- e) Not mentioned in the passage

Ans: d

It is mentioned in the passage, "Despite the many recognized advantages of 5G, mobile network operators are still looking for concrete evidence of return on investment (RoI)."

7. What is the demand that 5G is designed to meet?

- a) Global mobile data traffic
- b) Mobile subscriptions
- c) Hardware
- d) Communication
- e) None of the above

Ans: a

Exp:

It is mentioned in the passage, "According to telecom-focused technology company Cisco Systems, by 2020, connected mobile devices will produce 30.6 exabytes per month and annual global mobile data traffic will reach 366.8 exabytes (one exabyte is one quintillion bytes). 5G is designed to meet this basic demand."

8. Which of the following use cases of 5G is/are not mentioned in the passage?

- I. Sports and entertainment
- II. Agriculture
- III. Public safety
- IV. Space research
- V. Medical procedures

- a) Only I, II and IV



- b) Only I, III and V
- c) Only I, II and III
- d) Only II, III and IV
- e) All of the above use cases are mentioned

Ans: b

Exp:

It is given in the passage as:

“Remote medical procedures, engineering, **public safety** and field-service applications are all strong use case opportunities for the application of low latency 5G services.”

“Sports and entertainment, fixed wireless access, and autonomous vehicles”.

Only I, III and V are mentioned in the passage. Other two such as space research and agriculture are not mentioned in the passage.

Only I, III and V are mentioned in the passage. Other two such as space research and agriculture are not mentioned in the passage.

D. 9–13) Each sentence is divided into four parts. Rearrange them to make a meaningful sentence. If no rearrangement is required, then choose option (e) as the answer.

9. As tech companies become (A) / a key part of the (B) / looking more like giant computers on wheels (C) / auto industry, cars are (D)

- a) ABDC
- b) ACBD
- c) DBCA
- d) BACD
- e) No interchange required

Ans: a

Exp:



Hint: In D, after 'are' a verb in continuous form follows it.

Correct sentence: As tech companies become a key part of the auto industry, cars are looking more like giant computers on wheels.

10. Its Internet Explorer browser, adding to (A) / the digital scrap heap a product once (B) / Microsoft Corp is planning to largely retire (C) / at the center of one of the tech industry's biggest battles (D)

- a) BACD
- b) ADBC
- c) DBCA
- d) CABD
- e) No interchange required

Ans: d

Exp:

Hint: The phrasal verb 'adding to' should be followed by a noun (here, 'the digital scrap').

Correct sentence: Microsoft Corp is planning to largely retire its Internet Explorer browser, adding to the digital scrap heap a product once at the center of one of the tech industry's biggest battles.

11. Efficient at home and work, has raised complex questions about the growing (A) / the technology, which handles tasks once (B) / the exclusive domain of humans, making life more (C) / influence of computer algorithms in a wide range of public and private life (D)

- a) BCAD
- b) BDAC
- c) DBCA
- d) BADC
- e) No interchange required



Ans: a

Exp:

Hint: Here, 'growing' in A is an adjective that should be followed by a suitable noun 'influence'.

Correct sentence: The technology, which handles tasks once the exclusive domain of humans, making life more efficient at home and work, has raised complex questions about the growing influence of computer algorithms in a wide range of public and private life.

12. Were the logistical hurdles of evacuating people (A) / shifted to safer areas, there (B) / while keeping them safe from fresh infections (C) / covid patients in hospitals along the cyclone's path had to be. (D)

- a) ADCB
- b) BDCA
- c) DBAC
- d) BCDA
- e) No rearrangement required

Ans: c

Exp:

Hint: 'Had to be' will be followed by a verb of participle form (shifted).

The sentence is, "Covid patients in hospitals along the cyclone's path had to be shifted to safer areas, there were the logistical hurdles of evacuating people while keeping them safe from fresh infections."

13. And the Andaman & Nicobar Islands, its first pit-stop in (A) / precursor to its entry over mainland India (B) / the onset of monsoon over the Southeast Bay (C) / Indian waters, is around the normal time and is a. (D)

- a) BCDA
- b) CADB



- c) CBCD
- d) DCAB
- e) No rearrangement required

Ans: b

Exp:

Hint: The article 'a' in D will be followed by a singular noun (precursor).

The sentence is, "The onset of monsoon over the Southeast Bay and the Andaman & Nicobar Islands, its first pit-stop in Indian waters, is around the normal time and is a precursor to its entry over mainland India."

D. 14–15) Find the word which is misspelt or contextually incorrect among the bolded words. If all the words are correct, choose option (e) as your answer.

14. As human beings, we often **harbour judgments** about ourselves deep down, which exist as self-doubt about our worth, **compitence**, or **appearance**.

- a) harbour
- b) judgments
- c) appearance
- d) compitence
- e) All are correct

Ans: d

Exp:

The correct spelling is competence.

Competence – the ability to do something well



15. The only way to **overcome** this **defensivness** is to work on **becoming** more self-**validating**.

- a) defensivness
- b) overcome
- c) becoming
- d) validating
- e) All are correct

Ans: a

Exp:

The correct spelling is defensiveness.

Defensiveness – speech or behaviour in which someone is very eager to avoid being criticized

D. 16–20) A sentence is divided into four parts. One of the parts may have an error. Identify the part that has the error and choose from the given options. If there is no error in the given sentence, then choose option (e) as the answer.

16. Innovations like using solar energy (A) / to heat salt and use that (B) / trapped heat to boil water (C) / but generate steam must be explored. (D) / No Error (E)

- a) A
- b) B
- c) C
- d) D
- e) No Error

Ans: d

Exp:

Replace 'but' in D with 'and'.



'And' is a conjunction used to connect words of the same part of speech, clauses, or sentences that are to be taken jointly.

'But' is a conjunction used to introduce something contrasting with what has already been mentioned.

17. Thinking about all the things that (A) / you wish never happened to you is (B) / actually preventing all the things you want (C) / to happen from entering into your life. (D) / No Error (E)

- a) A
- b) B
- c) C
- d) D
- e) No Error

Ans: e

Exp:

No error in the given statement.

18. Confusion is always giving rise to clarity (A) / over time and a moment does come when (B) / all the new learning becomes wonderfully (C) / integrated within your understanding. (D) / No Error (E)

- a) A
- b) B
- c) C
- d) D
- e) No Error

Ans: a

Exp:



Replace 'is always giving' in A with 'always gives' as a regular or habitual action will be conveyed in simple present tense.

19. Life is a growth school, ideally (A) / created to give us opportunities to learn each of (B) / the lesson we need to learn over the (C) / course of our lives on the planet. (D) / No Error (E)

- a) A
- b) B
- c) C
- d) D
- e) No Error

Ans: c

Exp:

Replace 'lesson' with 'lessons', as 'each of' will be followed by plural noun. The phrases "one of... / each of... / any of..." will be followed by the plural.

20. Every person, to live truly and (A) / greatly, must define how he (B) / wants to live and what (C) / his biggest life will looking like. (D) / No Error (E)

- a) A
- b) B
- c) C
- d) D
- e) No Error

Ans: d

Exp:

Replace 'looking' with 'look', as 'will' is followed by a verb in its base form.



D. 21–25) Read the passage carefully and fill the blanks with appropriate words from the given options.

As infants, we really are perfect. We are still connected to the force that created the world. But as we begin to age, we __ (21) __ fears from the world around us. We want our parents to love and __ (22) __ us. So, we model them and take on their fears, limiting beliefs and false assumptions so we can be more like them. It's all done because we __ (23) __ love. Who you are in this moment is not who you truly are. Rather, it's someone you've become as a result of being in this world. To clear all those fears that you have assumed from the world around you, you will need to go back and __ (24) __ the source of all your fears. Then you'll have to work through them until they are no longer part of your __ (25) __.

21.

- a) evolve
- b) manifest
- c) practice
- d) involve
- e) adopt

Ans: e

Exp:

Adopt – take on or assume (an attitude or position)

Manifest – show (a quality or feeling) by one's acts or appearance

22.

- a) scare
- b) threaten
- c) smash
- d) adore
- e) frighten

Ans: d



Exp:

Adore – love and respect (someone) deeply

Frighten – make (someone) afraid or anxious

Threaten – cause (someone or something) to be vulnerable or at risk; endanger

Smash – violently break (something) into pieces

Scare – cause great fear or nervousness in; frighten

23.

- a) crave
- b) create
- c) manipulate
- d) design
- e) exaggerate

Ans: a

Exp:

Crave – feel a powerful desire for (something)

Manipulate – control or influence (a person or situation) cleverly or unscrupulously

Exaggerate – represent (something) as being larger, better, or worse than it really is

24.

- a) travel
- b) practice
- c) explore
- d) repeat
- e) assume



Ans: c

Exp:

Explore – to search and discover (about something)

Assume – take or begin to have (power or responsibility)

25.

a) possession

b) mental

c) physique

d) realm

e) psyche

Ans: e

Exp:

Psyche – the human soul, mind, or spirit

Physique – the form, size, and development of a person's body

Possession – something that is owned or possessed

Realm – a kingdom

D. 26–28) In a sentence four words are given in bold. They may or may not be appropriate contextually. Interchange those words in order to make the sentence meaningful. If no interchange is required, choose option 'e' as the answer.

26. The messaging platform WhatsApp has **consistently (A)** refused to **tracing (B)** with the government's demand, saying that **comply (C)** the origin of fake/unlawful messages for over two years will **undermine (D)** the privacy of WhatsApp users.

a) A-C



- b) B-D
- c) A-D
- d) B-C
- e) No interchange required

Ans: d

Exp:

'Comply' and 'tracing' should be interchanged.

The correct sentence is, "The messaging platform WhatsApp has **consistently** refused to **comply** with the government's demand, saying that **tracing** the origin of fake/unlawful messages for over two years will **undermine** the privacy of WhatsApp users."

27. Internet **restrictions (A)** refer to intentional **disruptions (B)** on **connectivity (C)** that limit people's ability to **access (D)** the internet or specific websites and apps.

- a) A-B
- b) A-C
- c) C-D
- d) Both a and c
- e) No interchange required

Ans: a

Exp:

'Restrictions' and 'disruptions' should be interchanged.

The correct sentence is, "Internet **disruptions** refer to intentional **restrictions** on **connectivity** that limit people's ability to **access** the internet or specific websites and apps."



28. While more research is needed to measure the emissions **coming (A)** from permafrost, the researchers **thawing (B)** that fires along with abrupt **estimate (C)** events could increase carbon emissions unless the fossil fuel emission are **drastically (D)** reduced.

- a) A-B
- b) B-D
- c) B-C
- d) C-D
- e) No interchange required

Ans: c

Exp:

'Thawing' and 'estimate' should be interchanged.

The correct sentence is, "While more research is needed to measure the emissions **coming** from permafrost, the researchers **estimate** that fires along with abrupt **thawing** events could increase carbon emissions unless the fossil fuel emission are **drastically** reduced."

D. 29–30) In questions given below, a part of the sentence is italicised and underlined. Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose option 'e' as the answer.

29. As automakers' investments in electric vehicles (EVs) ramp up, pickup trucks **is fast become** a new front in the electrification wars.

- a) are fast becoming
- b) becoming fast
- c) fast became
- d) would become fast
- e) No improvement needed

Ans: a



Exp:

We use 'as' as a conjunction when one event happens while another is in progress ('during the time that'). Here, the progressive action is 'pickup trucks are fast becoming a new front'.

30. Facebook founder and CEO Mark Zuckerberg is telling everyone **whom will listened** that it is time to regulate the internet.

- a) for listening
- b) whom listens
- c) to listen to him
- d) who will listen
- e) No improvement needed

Ans: d

Exp:

Here, a subjective pronoun referring 'everyone' is required. The CEO is telling people who listens (responds) to his statement ie., that it is time to regulate the internet.

D. 31–35) Find the missing numbers (?) in the given series.

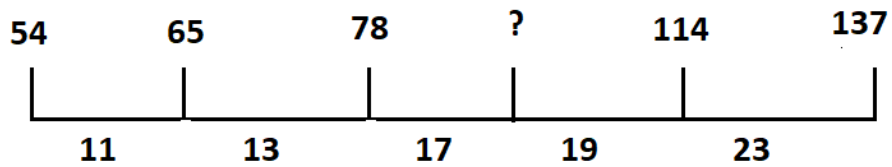
31. 54, 65, 78, ? , 114, 137

- a) 92
- b) 97
- c) 104
- d) 100
- e) 95

Ans: e

Exp:



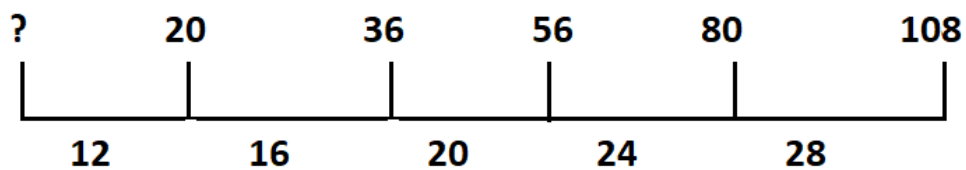


32. ?, 20, 36, 56, 80, 108

- a) 10
- b) 9
- c) 14
- d) 8
- e) 6

Ans: d

Exp:



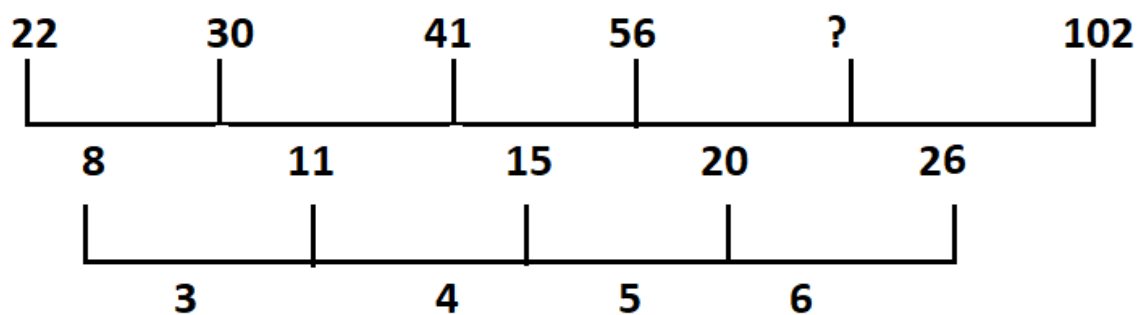
33. 22, 30, 41, 56, ?, 102

- a) 100
- b) 94
- c) 81
- d) 76
- e) 68

Ans: d

Exp:



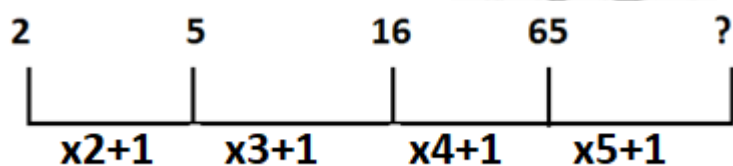


34. 2, 5, 16, 65, ?

- a) 326
- b) 302
- c) 295
- d) 329
- e) 291

Ans: a

Exp:



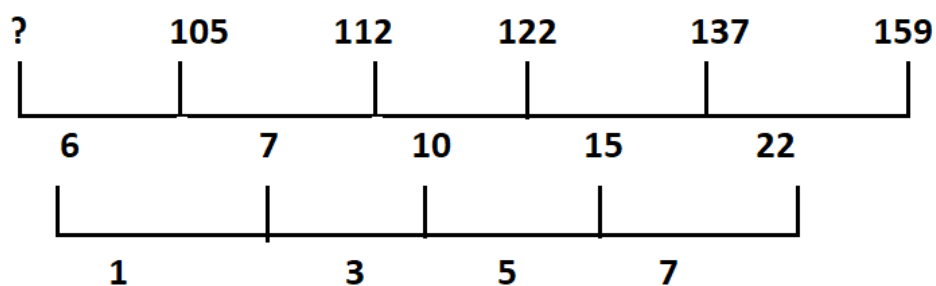
35. ?, 105, 112, 122, 137, 159

- a) 97
- b) 99
- c) 95
- d) 102
- e) 94

Ans: b

Exp:





36. $1528 + 525 \div 25 - 840 = 510 + ?$

- a) 199
- b) 299
- c) 159
- d) 189
- e) 165

Ans: a

Exp:

$$1528 + 21 - 840 - 510 = ?$$

$$? = 1549 - 1350$$

$$? = 199$$

37. $45\% \text{ of } (\sqrt{6561} \times 5) = ? \div 124$

- a) 23599
- b) 22599
- c) 22579
- d) 22753
- e) None of these

Ans: b

Exp:



$$45\% \text{ of } (\sqrt{6561} \times 5) = ? \div 124$$

$$45\% \text{ of } 81 \times 5 = ? \div 124$$

$$45\% \text{ of } 405 = ? \div 124$$

$$? \div 124 = \frac{729}{4}$$

$$? = 22599$$

$$38. 672 \div 24 \times 18 + 153 - 345 = X$$

- a) 318
- b) 324
- c) 305
- d) 314
- e) None of these

Ans: c

Exp:

$$672 \div 24 \times 18 + 153 - 345 = x$$

$$x = 312$$

$$39. 35\% \text{ of } 760 - 13 \div 17 \times 289 + 224 = x^2 - 55$$

- a) 22
- b) 26
- c) 18
- d) 30
- e) 28

Ans: c

Exp:

$$266 - 13 \times \frac{1}{17} \times 289 + 224 = x^2 - 55$$



$$266 - 221 + 224 + 55 = x^2$$

$$x^2 = 324; x = 18$$

$$40. 11 \times 14 + 221 = \sqrt[3]{x} + 370$$

a) 125

b) 140

c) 175

d) 180

e) 150

Ans: a

Exp:

$$154 + 221 - 370 = \sqrt[3]{x}$$

$$\sqrt[3]{x} = 5; x = 125$$

$$41. 25 \times 45 + 3^2 \times 44 - 35\% \text{ of } 440 = x$$

a) 1388

b) 1356

c) 1367

d) 1300

e) 1320

Ans: c



Exp:

$$1125 + 396 - 154 = x$$

$$x = 1367$$

$$42. 32 \div 64 \times 16 + 17 \times 13 - 4 = x^2$$

- a) 15
- b) 225
- c) 18
- d) 324
- e) 350

Ans: a

Exp:

$$32 \times \frac{1}{64} \times 16 + 221 - 4 = x^2$$

$$4 + 221 = x^2$$

$$x^2 = 225$$

$$x = 15$$

$$43. 12.5 \% \text{ of } 1584 - 11\sqrt{2} \times 10\sqrt{2} + 221 = x$$

- a) 199
- b) 179
- c) 132
- d) 145
- e) 135

Ans: a



Exp:

$$198 - 220 + 221 = x$$

$$x = 199$$

$$44. 15 \times 98 + 120\% \text{ of } 350 - 20\% \text{ of } 350 = x - 14 \times 11$$

a) 1988

b) 1974

c) 1924

d) 1900

e) 1950

Ans: b

Exp:

$$1470 + 420 - 70 = x - 154$$

$$x = 1974$$

$$45. 56\% \text{ of } 250 - 19 \times 68 \div 17 + 450 = x$$

a) 584

b) 525

c) 514

d) 550

e) 600

Ans: c

Exp:

$$140 - 19 \times 68 \times \frac{1}{17} + 450 = x$$

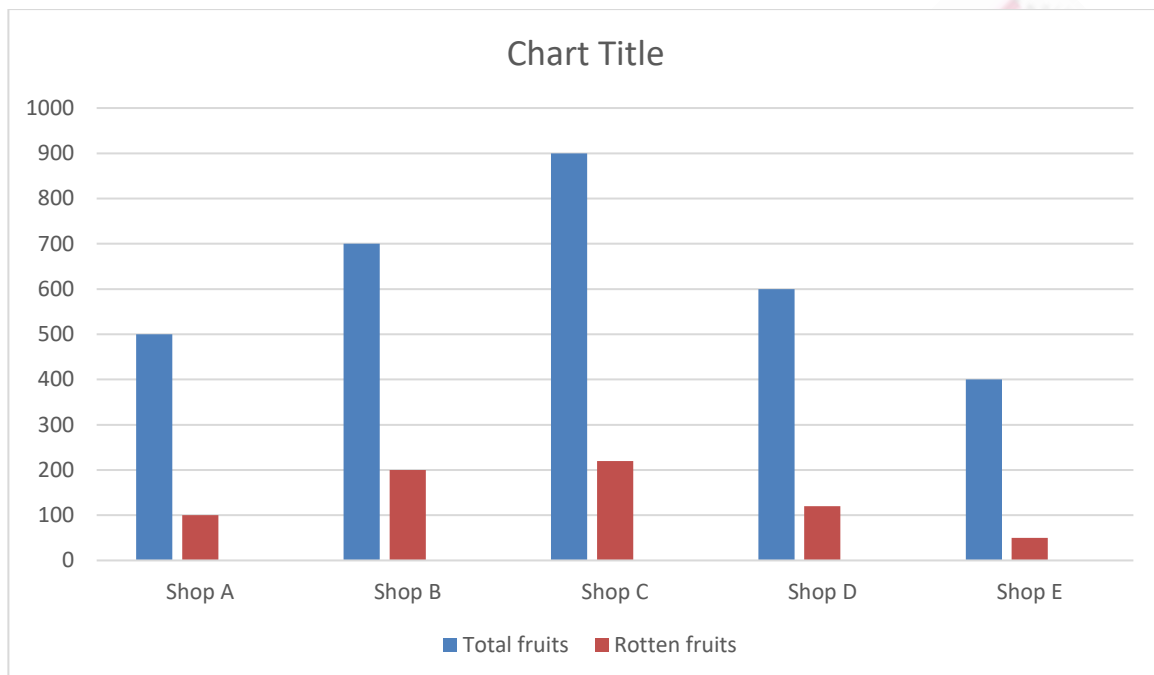


$$x = 140 - 76 + 450$$

$$x = 514$$

D. 46–50) Study the bar chart given below and answer the following questions.

The below bar chart shows the total number of fruits and number of fruits in four different shops A, B, C, D & E, respectively.



Note: The number of fruits sold = Total fruits – Rotten fruits

46. Find average number of fruits sold by shops A, C and shop D.

- a) 640
- b) 420
- c) 520
- d) 620
- e) 560

Ans: c

Exp:

Total number of fruits in shops A, C and D = $500 + 900 + 600 = 2000$



Total number of rotten fruits in shops A, C and D = $100 + 220 + 120 = 440$

The number of fruits sold by shops A, C and shop D is $2000 - 440 = 1560$

Required average = $\frac{1560}{3} = 520$

47. Find the ratio of number of fruits sold by B & C together to the number of fruits sold by A & D together in 2006.

a) 51:66

b) 59:44

c) 49:55

d) 48:77

e) 51:33

Ans: b

Exp:

The number of fruits sold by B & C together is $500 + 680 = 1180$.

The number of fruits sold by A & D together is $400 + 480 = 880$.

Required ratio = $1180:880 = 59:44$.

48. The number of fruits sold by D is what percentage of the number of fruits sold by A.

a) 120%

b) 166.66%

c) 150%

d) 133.33%

e) 183.33%

Ans: b

Exp:

The number of fruits sold by D is 480

The number of fruits sold by A is 400

Required percentage = $\frac{480}{400} \times 100 = 120\%$



49. The number fruits sold by A & C are how much more or less than the number of fruits sold by B & D together in 2006?

- a) 200
- b) 100
- c) 300
- d) 150
- e) 280

Ans: b

Exp:

The number fruits sold by A & C together is $400 + 680 = 1080$

The number of fruits sold by B & D together is $500 + 480 = 980$

Required difference = $1080 - 980 = 100$

50. The fruits sold by B & C together are what percent of fruits sold by B?

- a) 140%
- b) 136%
- c) 236%
- d) 240%
- e) 156%

Ans: c

Exp:

The fruits sold by B & C together is $500 + 680 = 1180$

The fruits sold by B is 500.

Required percentage = $\frac{1180}{500} \times 100 = 236\%$

D.51-55) Read the given information carefully and answer the following questions.

Following information gives the data regarding employees' performance scores obtained by five employees (A, B, C, D and E) in the month of April and May 2021.



April: Scores obtained by A is 30% of scores obtained by B who got 25 more than C. D and E together got the score of 148. D alone got 56 and the respective ratio of scores obtained by A and D is 9:14.

May: A got 25% more score than E and 24 more than C. B and E together got 116. Scores obtained by B and D are in the ratio 4:5 respectively and E got score 4 less than B.

51. How much score did employee D got in both the months together?

- a) 121
- b) 131
- c) 144
- d) 151
- e) 129

Ans: b

Exp:

Employees	April	May
A	36	70
B	120	60
C	95	46
D	56	75
E	92	56

The score that employee D got in both the months together is $56 + 75 = 131$.

52. what is the approximate percentage increase in the score of employee A in the month of May when compared to previous month?

- a) 84%
- b) 72%
- c) 94%
- d) 98%
- e) 90%

Ans: c

Exp:



Employees	April	May
A	36	70
B	120	60
C	95	46
D	56	75
E	92	56

The score of employee A in the month of April is 35.

The score of employee A in the month of May is 70.

Required percentage $\frac{70-36}{70} \times 100 = 94.44 \sim 94\%$.

53. what is the respective ratio of scores obtained by employee C in April month to that employee D in May month?

- a) 17:18
- b) 19:25
- c) 95:17
- d) 19:15
- e) 17:15

Ans: d

Exp:

Employees	April	May
A	36	70
B	120	60
C	95	46
D	56	75
E	92	56

The scores obtained by employee C in April is 95.

The scores obtained by employee D in May is 75.



Required ratio is 19:15.

54. The difference between the average scores obtained by all the given employees in April and the average scores obtained by all the given employees in May?

- a) 21
- b) 18.4
- c) 19.4
- d) 15
- e) 12.4

Ans: b

Exp:

Employees	April	May
A	36	70
B	120	60
C	95	46
D	56	75
E	92	56

The average scores obtained by all the given employees in April is $\frac{36+120+95+56+92}{5} = \frac{399}{5}$

The average scores obtained by all the given employees in May is $\frac{70+60+46+75+56}{5} = \frac{307}{5}$

Required difference $\frac{399-307}{5} = \frac{92}{5} = 18.4$.

55. The scores obtained by employee B in April is what percentage more/less than the scores obtained by employee D in May?

- a) 30% more
- b) 60 % less
- c) 30% less
- d) 50% more
- e) 60% more



Ans: e

Exp:

Employees	April	May
A	36	70
B	120	60
C	95	46
D	56	75
E	92	56

The scores obtained by employee B in April is 120.

The scores obtained by employee D in May is 75.

Required percentage = $\frac{45}{75} \times 100 = 60\%$ more.

56. Quantity I: A and B can do a piece of work in $22\frac{1}{2}$ days and the ratio of time taken by A and B is 3 : 5. Find the difference between the time taken by A and B alone to complete the whole work?

Quantity II: 25 days.

- a) Quantity I > Quantity II
- b) Quantity I < Quantity II
- c) Quantity I \geq Quantity II
- d) Quantity I \leq Quantity II
- e) Quantity I = Quantity II or Relation cannot be established

Ans: b

Exp:

Quantity I:

Total work to be done = $(3x + 5x) \times 22.5 = 180x$

Number of days taken by A = $\frac{180x}{3x} = 60$ days



$$\text{Number of days taken by B} = \frac{180x}{5x} = 36 \text{ days}$$

$$\text{Difference in days} = 60 - 36 = 24 \text{ days}$$

Quantity I < Quantity II

D. 57–60) In the Questions given below, two equations numbered I and II are given. You have to solve both the equations and choose the correct option.

57. I. $x^2 - 25x + 136 = 0$

II. $y^2 - 24y + 143 = 0$

- a) $x > y$
- b) $x < y$
- c) $x \geq y$
- d) $x \leq y$
- e) $x = y$ (or) *can't be determined*

Ans: e

Exp:

I. $x^2 - 25x + 136 = 0$



$$x = +17, +8$$



$$\text{II. } y^2 - 24y + 143 = 0$$



$$y = +11, +13$$

$$58. \text{ I. } x^2 = 169$$

$$\text{II. } y = \sqrt[3]{2197}$$

- a) $x > y$
- b) $x < y$
- c) $x \geq y$
- d) $x \leq y$
- e) $x = y$ (or) *can't be determined*

Ans: d

Exp:

$$\text{I. } x^2 = 169$$

$$x = +13, -13$$

$$\text{II. } y = \sqrt[3]{2197}$$

$$y = +13$$



59. I. $x^2 + 3x - 208 = 0$

II. $y^2 - 25y + 156 = 0$

a) $x > y$

b) $x < y$

c) $x \geq y$

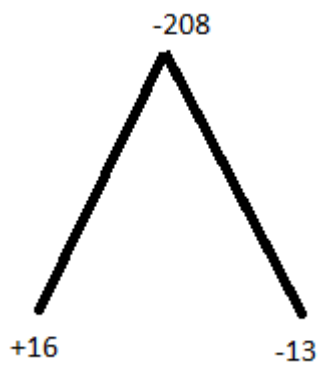
d) $x \leq y$

e) $x = y$ (or) can't be determined

Ans: e

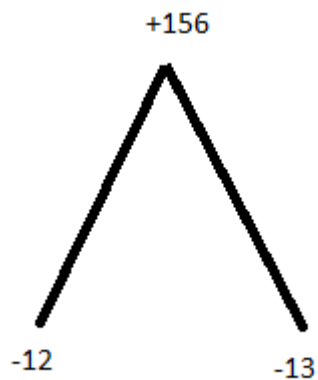
Exp:

I. $x^2 + 3x - 208 = 0$



$x = -16, +13$

II. $y^2 - 25y + 156 = 0$



$y = +12, +13$



60. I. $x^2 - 18x + 45 = 0$

II. $y^2 - 22y + 105 = 0$

a) $x > y$

b) $x < y$

c) $x \geq y$

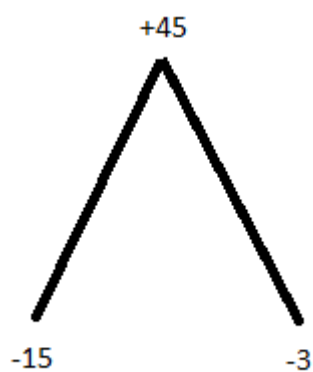
d) $x \leq y$

e) $x = y$ (or) *can't be determined*

Ans: e

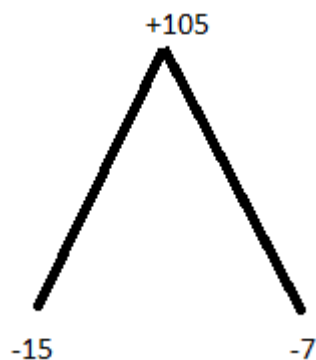
Exp:

I. $x^2 - 18x + 45 = 0$



$x = +15, +3$

II. $y^2 - 22y + 105 = 0$



$y = +15, +7$



61. A shopkeeper bought 36 kg of pulses at Rs. 28 per kg. He mixed it with 60 kg of pulses costing Rs. 32 per kg. In order to make a profit of 20%, at what price should he sell per kg of the mixture?

- a) Rs. 36.60
- b) Rs. 32.60
- c) Rs. 32.75
- d) Rs. 36.75
- e) None of these

Ans: a

Exp:

Total cost price of the pulses = $(36 \times 28) + (60 \times 32) = 2928$

Required selling price

$$= \frac{2928}{96 \times 5} \times 6 = \text{Rs. } 36.60$$

62. Raja sold his cycle for Rs. 3600, hence gained a certain amount. Had he sold the cycle for Rs. 2700, he would have suffered a loss equal to 25% of the gain in the first case. Find the cost price of the cycle.

- a) Rs. 2800
- b) Rs. 2880
- c) Rs. 2920
- d) Rs. 2980
- e) Rs. 2820

Ans: b

Exp:

Let the gain in the 1st case be $4x$ and the loss in 2nd case be x . Difference between two selling prices = $4x - (-x) = \text{Rs. } 5x$

Actual difference between two selling prices = $3600 - 2700 = \text{Rs. } 900$



$$5x = 900$$

$$x = 180$$

$$\text{Cost price of the cycle} = \text{Rs. } 3600 - 4x = 3600 - 720$$

$$= \text{Rs. } 2880$$

63. The speed of the current is 5 km/hr and the speed of the boat in still water is 50% more than speed boat of the boat in upstream. What is the downstream distance travelled by boat in 2 hours?

- a) 60 km
- b) 80 km
- c) 25 km
- d) 40 km
- e) 50 km

Ans: d

Exp:

Let the speed of the boat be B and the speed of the current be S. The speed of the current is 5 km/hr. The speed of the boat in still water is 50% more than speed of the boat in upstream. $B = \frac{3}{2}(B - S)$

$$B = 15 \text{ km/hr}$$

$$\text{Downstream speed} = (15+5) = 20 \text{ km/hr}$$

$$\text{Total downstream distance} = 20 \times 2 = 40 \text{ km}$$

64. The ages of father and son before 8 years is in the ratio of 8:5 and the ages of father and son after 12 years is in the ratio 13:10. What is the age of the father after 4 years?

- a) 54 years
- b) 64 years
- c) 44 years
- d) 35 years
- e) 40 years

Ans: c

Exp:



The ages of father and son before 8 years are in the ratio $8x:5x$.

The ages of father and son after 12 years are in the ratio $13x:10x$.

The total age difference is 20, which is equal to 5 parts. 1 part = 4

The age of father after 4 years = $(8 \times 4) + 12 = 44$ years

65. A batsman has a certain average in 9 innings. In the tenth innings, he scores 100 runs, so his average increases by 8 runs. What is the new average of the batsman?

- a) 36
- b) 28
- c) 48
- d) 32
- e) 24

Ans: b

Exp:

Let the initial average be x . Total score be $9x$,

$$9x + 100 = 10(x + 8)$$

$$x = 20$$

So,

$$\text{New average} = 20 + 8 = 28$$

D. 66-68) Read the information carefully and answer the questions given below.

A is the son of B. C has only two children – A and D. E is the sister of F. D is married to G. C has only two sons. H is the father of B. E is married to A. H is married to I. C is the daughter of J.

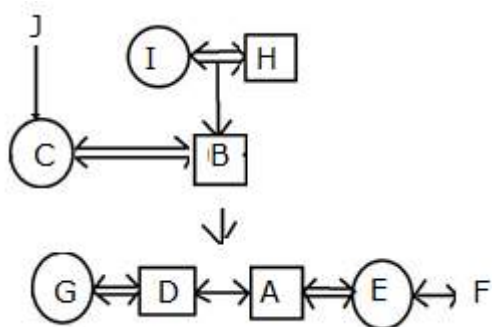
66. Who among the following is the father of B?

- a) H
- b) J
- c) C
- d) I
- e) None of these

Ans: a



Exp:

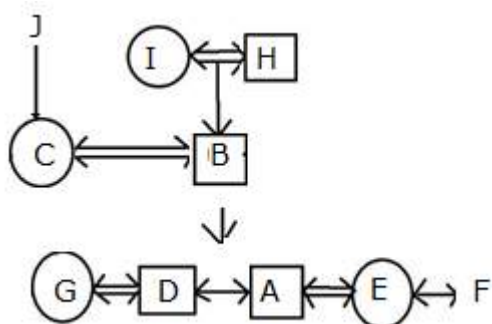


67. Who among the following is the brother-in-law of F?

- a) D
- b) A
- c) B
- d) H
- e) J

Ans: b

Exp:



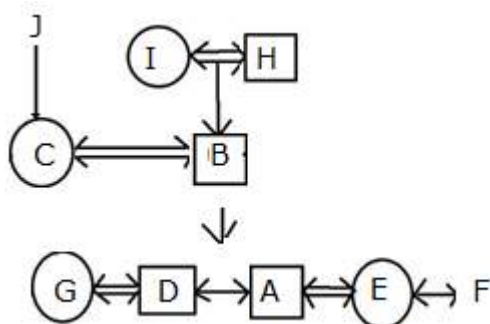
68. How is C related to E?

- a) Father-in-law
- b) Mother-in-law
- c) Father
- d) Mother
- e) Brother

Ans: b

Exp:





69. How many such pairs of letters are there in the '**CONDITION**' each of which has as many letters between them in the word as in the English Alphabet?

- a) None
- b) One
- c) Two
- d) Three
- e) More than three

Ans: e

Exp:



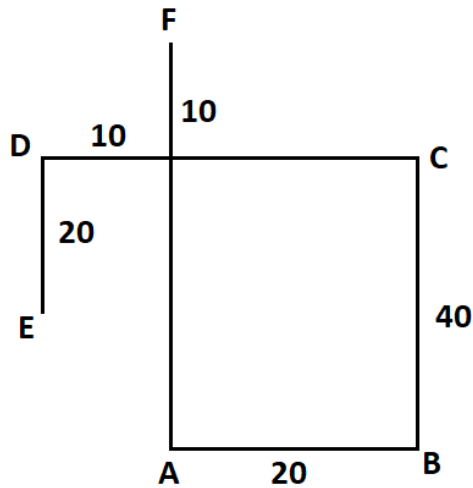
70. Point A is 20 m west of point B. Point B is 40 m south of point C. Point D is 30 m west of point C. Point E is 20 m south of point D. Point F is 50 m north of point A. If point G is to the south of A, then G is in which direction with respect to C?

- a) South
- b) North
- c) Southwest
- d) North East
- e) None of the above

Ans: c

Exp:





D. 71-75) Study the following information carefully and answer the given questions.

Seven persons J, K, L, M, N, O and P are working in a same office. Each person takes a week off on seven different days of the week. Only one person takes week off on one day. The week starts from Sunday. Two persons take week off between J and O. P is not the last person takes week off. N takes week off on immediately after J who takes week off on before Wednesday. K takes week off two days before L. M takes week off immediately before P.

71. Who among the following persons takes week off on Tuesday?

- a) J
- b) N
- c) K
- d) P
- e) M

Ans: (a)

Exp:

i) Two persons take week off between J and O. N takes week off on immediately after J who takes week off on before Wednesday.



	Case A	Case B	Case C
Sunday			J
Monday		J	N
Tuesday	J	N	
Wednesday	N		O
Thursday		O	
Friday	O		
Saturday			

(ii) K takes week off two days before L. M takes week off immediately before P.

	Case A	Case B	Case C	Case C - 1
Sunday	M		J	J
Monday	P	J	N	N
Tuesday	J	N	K	
Wednesday	N	K	O	O
Thursday	K	O	L	K
Friday	O	L	M	
Saturday	L		P	L

M takes week off immediately before P so Case B and Case C-1 are eliminated.

(iii) P is not the last person takes week off.

	Case A	Case C



Sunday	M	J
Monday	P	N
Tuesday	J	K
Wednesday	N	O
Thursday	K	L
Friday	O	M
Saturday	L	P

P is not the last person takes week off so Case C also eliminated. Finally we get answer from Case A.

	Case A
Sunday	M
Monday	P
Tuesday	J
Wednesday	N
Thursday	K
Friday	O
Saturday	L

J takes week off on Tuesday

72. Which of the following day P takes week off?

- a) Monday
- b) Tuesday
- c) Wednesday



d) Thursday

e) Friday

Ans: (a)

Exp:

i) Two persons take week off between J and O. N takes week off on immediately after J who takes week off on before Wednesday.

	Case A	Case B	Case C
Sunday			J
Monday		J	N
Tuesday	J	N	
Wednesday	N		O
Thursday		O	
Friday	O		
Saturday			

(ii) K takes week off two days before L. M takes week off immediately before P.

	Case A	Case B	Case C	Case C - 1
Sunday	M		J	J
Monday	P	J	N	N
Tuesday	J	N	K	
Wednesday	N	K	O	O
Thursday	K	O	L	K



Friday	O	L	M	
Saturday	L		P	L

M takes week off immediately before P so Case B and Case C-1 are eliminated.

(iii) P is not the last person takes week off.

	Case A	Case C
Sunday	M	J
Monday	P	N
Tuesday	J	K
Wednesday	N	O
Thursday	K	L
Friday	O	M
Saturday	L	P

P is not the last person takes week off so Case C also eliminated. Finally we get answer from Case A.

	Case A
Sunday	M
Monday	P
Tuesday	J
Wednesday	N
Thursday	K
Friday	O



Saturday	L
----------	---

P takes week off on Monday.

73. How many persons take week off between J and L?

- a) None
- b) One
- c) Two
- d) Three
- e) More than three

Ans: (d)

Exp:

(i) Two persons take week off between J and O. N takes week off on immediately after J who takes week off on before Wednesday.

	Case A	Case B	Case C
Sunday			J
Monday		J	N
Tuesday	J	N	
Wednesday	N		O
Thursday		O	
Friday	O		
Saturday			

(ii) K takes week off two days before L. M takes week off immediately before P.



	Case A	Case B	Case C	Case C - 1
Sunday	M		J	J
Monday	P	J	N	N
Tuesday	J	N	K	
Wednesday	N	K	O	O
Thursday	K	O	L	K
Friday	O	L	M	
Saturday	L		P	L

M takes week off immediately before P so Case B and Case C-1 are eliminated.

(iii) P is not the last person takes week off.

	Case A	Case C
Sunday	M	J
Monday	P	N
Tuesday	J	K
Wednesday	N	O
Thursday	K	L
Friday	O	M
Saturday	L	P

P is not the last person takes week off so Case C also eliminated. Finally we get answer from Case A.



	Case A
Sunday	M
Monday	P
Tuesday	J
Wednesday	N
Thursday	K
Friday	O
Saturday	L

Three persons take week off between J and L

74. Which of the following combination is true?

- a) Sunday - P
- b) Tuesday - N
- c) Thursday - L
- d) Friday - O
- e) Saturday - M

Ans: (d)

Exp:

(i) Two persons take week off between J and O. N takes week off on immediately after J who takes week off on before Wednesday.

	Case A	Case B	Case C
--	--------	--------	--------



Sunday			J
Monday		J	N
Tuesday	J	N	
Wednesday	N		O
Thursday		O	
Friday	O		
Saturday			

(ii) K takes week off two days before L. M takes week off immediately before P.

	Case A	Case B	Case C	Case C - 1
Sunday	M		J	J
Monday	P	J	N	N
Tuesday	J	N	K	
Wednesday	N	K	O	O
Thursday	K	O	L	K
Friday	O	L	M	
Saturday	L		P	L

M takes week off immediately before P so Case B and Case C-1 are eliminated.

(iii) P is not the last person takes week off.

	Case A	Case C
Sunday	M	J



Monday	P	N
Tuesday	J	K
Wednesday	N	O
Thursday	K	L
Friday	O	M
Saturday	L	P

P is not the last person takes week off so Case C also eliminated. Finally we get answer from Case A.

	Case A
Sunday	M
Monday	P
Tuesday	J
Wednesday	N
Thursday	K
Friday	O
Saturday	L

75. Which of the following statement is true?

- (i) K takes week off last day of week
 - (ii) P takes week off immediately after O
 - (iii) Two persons take week off between L and N
- a) Only (i) is true
- b) Only (ii) is true



- c) Only (iii) is true
- d) Only (i) and (ii) are true
- e) All statements are true

Ans: (c)

Exp:

(i) Two persons take week off between J and O. N takes week off on immediately after J who takes week off on before Wednesday.

	Case A	Case B	Case C
Sunday			J
Monday		J	N
Tuesday	J	N	
Wednesday	N		O
Thursday		O	
Friday	O		
Saturday			

(ii) K takes week off two days before L. M takes week off immediately before P.

	Case A	Case B	Case C	Case C - 1
Sunday	M		J	J
Monday	P	J	N	N
Tuesday	J	N	K	
Wednesday	N	K	O	O



Thursday	K	O	L	K
Friday	O	L	M	
Saturday	L		P	L

M takes week off immediately before P so Case B and Case C-1 are eliminated.

(iii) P is not the last person takes week off.

	Case A	Case C
Sunday	M	J
Monday	P	N
Tuesday	J	K
Wednesday	N	O
Thursday	K	L
Friday	O	M
Saturday	L	P

P is not the last person takes week off so Case C also eliminated. Finally we get answer from Case A.

	Case A
Sunday	M
Monday	P
Tuesday	J
Wednesday	N
Thursday	K



Friday	O
Saturday	L

D. 76-80): Study the following arrangement carefully and answer the question given below:

326 576 627 513 894

76. If the first digit of each number is decreased by two and then the digits in each number are arranged in descending order from left to right. Then, which of the following number is the second smallest number after the rearrangement?

- a) 326
- b) 576
- c) 627
- d) 513
- e) 894

Ans: a

Exp:

The given number series is,

326 576 627 513 894

(i) The first digit of each number is decreased by two,

126 376 427 313 694

(ii) The digits in each number are arranged in descending order from left to right,

621 763 742 331 964

Then, the second smallest number after the rearrangement is 621, and its corresponding number will be 326.

77. If the odd digits in each number are decreased by one and the even digits are increased by 2 and then the numbers thus formed are arranged in descending order from left to right. Which is the second number from the right end after the rearrangement?

- a) 326



b) 576

c) 627

d) 513

e) 894

Ans: d

Exp:

The given number series is,

326 576 627 513 894

(i) If the odd digits in each number are decreased by one and the even digits are increased by 2,

248 468 846 402 1086

(ii) The numbers thus formed are arranged in descending order from left to right.

1086 846 468 402 248

Then, the second number from the right end after the rearrangement is 402, and its corresponding number will be 513.

78. If the first and the last digits of the number are interchanged, then how many numbers thus formed are divisible by 4?

a) 1

b) 2

c) 3

d) 0

e) None of these

Ans: d

Exp:

The given number series is,

326 576 627 513 894

If the first and the last digits of the number are interchanged,

623 675 726 315 498



79. If the digits in each number are written in descending order and the numbers thus formed are arranged in ascending order from right to left, then which of the following corresponds to the fourth-smallest number after the rearrangement?

- a) 326
- b) 576
- c) 627
- d) 513
- e) 894

Ans: b

Exp:

The given number series is,

326 576 627 513 894

(i) If the digits in each number are written in descending order,

632 765 762 531 984

(ii) The numbers formed are arranged in ascending order from right to left,

984 765 762 632 531

Then, the fourth-smallest number after the rearrangement is 765, and its corresponding number is 576.

80. If the digits in odd position are decreased by one, and the numbers are arranged in ascending order from right to left, then which of the following number will be the second from the left end?

- a) 326
- b) 576
- c) 627
- d) 513
- e) 894

Ans: c



Exp:

The given number series is,

326 576 627 513 894

(i) If the digits in odd position are decreased by one, we get

225 475 526 412 793

(ii) Then the numbers are arranged in ascending order from right to left,

793 526 475 412 225

Then, the number which is the second from the left end is 526, and its corresponding number will be 627.

D. 81-85) Study the following information carefully and answer the given questions.

Eight persons S, T, U, V, W, X, Y, and Z sit in a circular table and all of them facing center. The distances between the friends are equal. All the above information is not necessarily in the same order. W sits third to the right of X who is not immediate neighbour of T. Y sits third to the left of U. Only two persons sit between V and Z. One person sits between Z and Y. T is not an immediate neighbour of S. Y and T are facing each other. S and X are immediate neighbours.

81. Who among the following person sits opposite to W?

- a) S
- b) T
- c) U
- d) V
- e) None of these

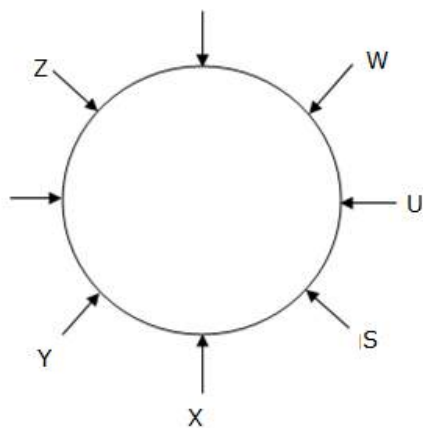
Ans: d

Exp:

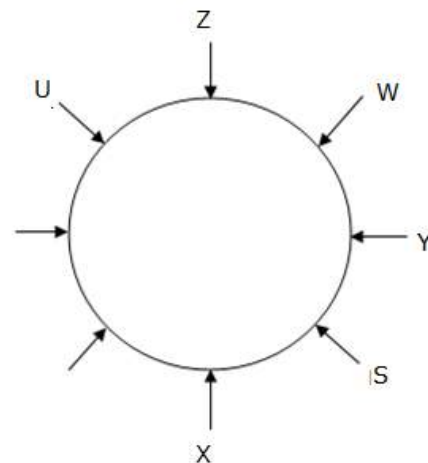
W sits third to the right of X who is not immediate neighbour of T. S and X are immediate neighbours. T is not an immediate neighbour of S. Y sits third to the left of U. One person sits between Z and Y.



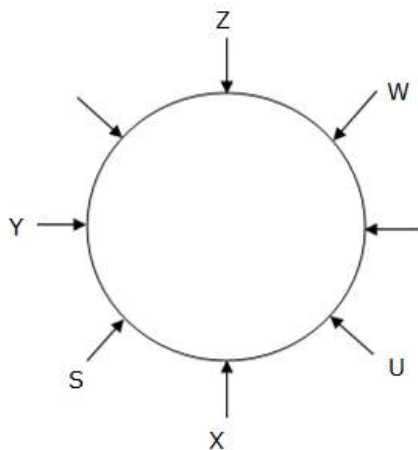
Case A



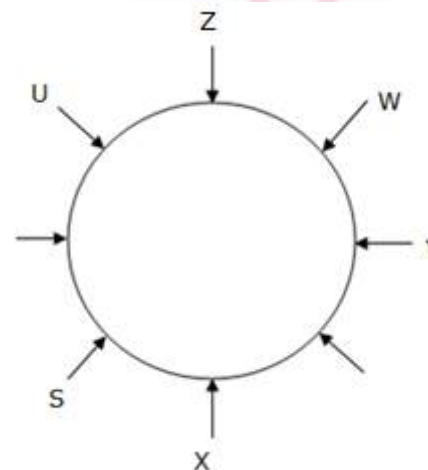
Case A(i)



Case B



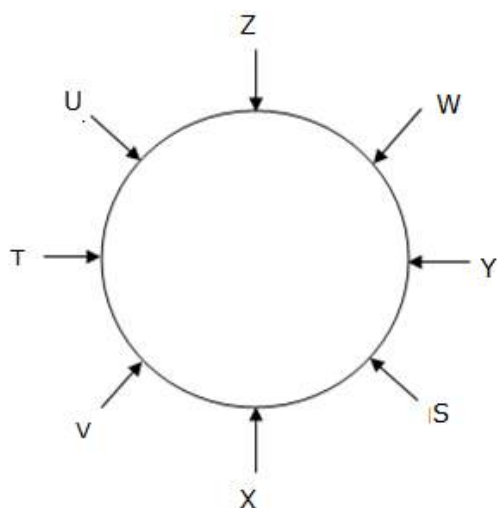
Case B(i)



Only two persons sit between V and Z. Y and T are facing each other.

Case A(i)





82. What is the position of S with respect to T?

- a) Second to the right
- b) Fourth to the left
- c) Fifth to the left
- d) Third to the right
- e) Both (c) and (d)

Ans: e

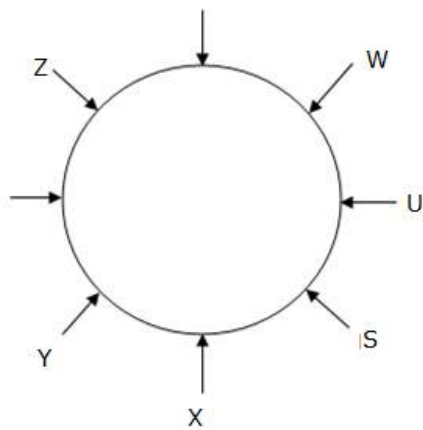
Exp:

W sits third to the right of X who is not immediate neighbour of T. S and X are immediate neighbours. T is not an immediate neighbour of S. Y sits third to the left of U. One person sits between Z and Y.

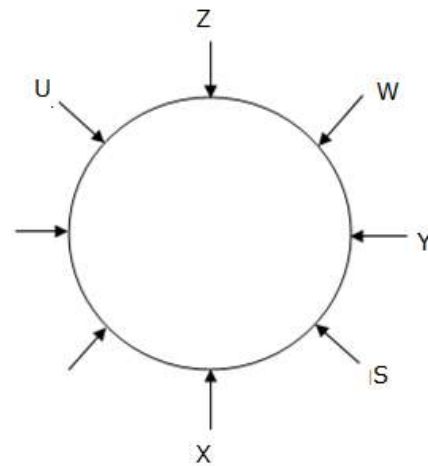
Case A

Case A(i)

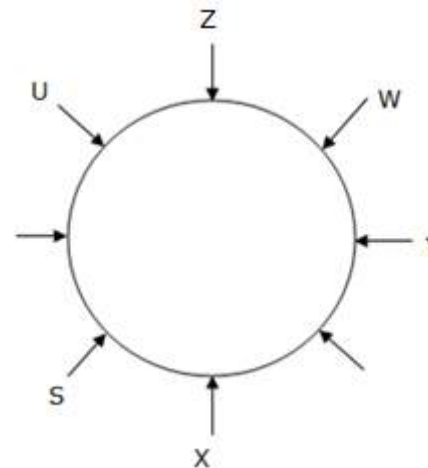
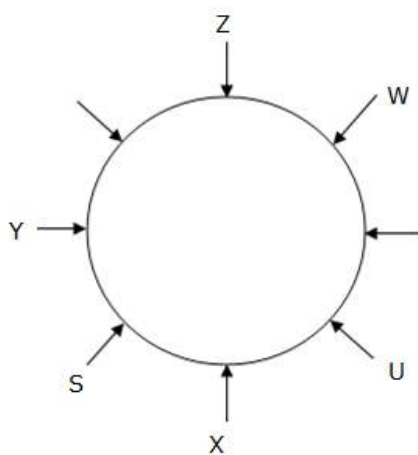




Case B

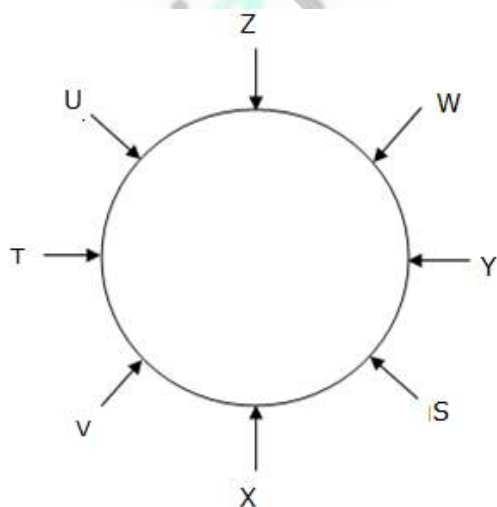


Case B(i)



Only two persons sit between V and Z. Y and T are facing each other.

Case A(i)



83. If Y is related to W in a certain way and in a same way T is related to V then which of the following person is related to S?

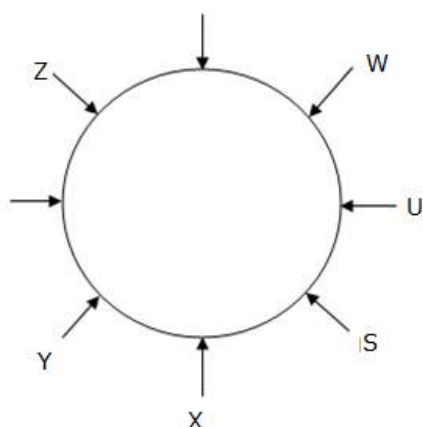
- a) T
- b) V
- c) U
- d) X
- e) None of these

Ans: d

Exp:

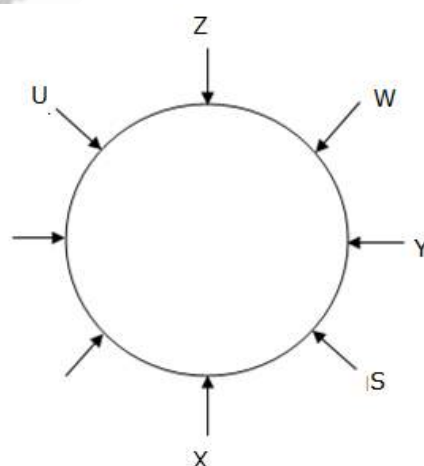
W sits third to the right of X who is not immediate neighbour of T. S and X are immediate neighbours. T is not an immediate neighbour of S. Y sits third to the left of U. One person sits between Z and Y.

Case A



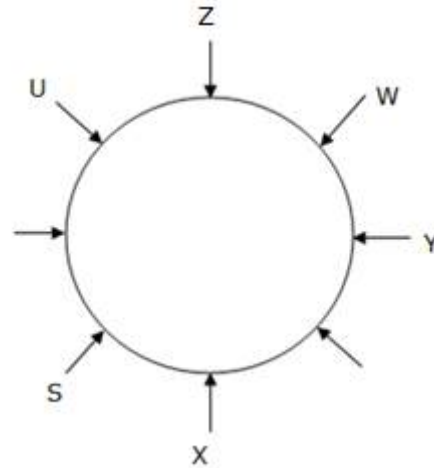
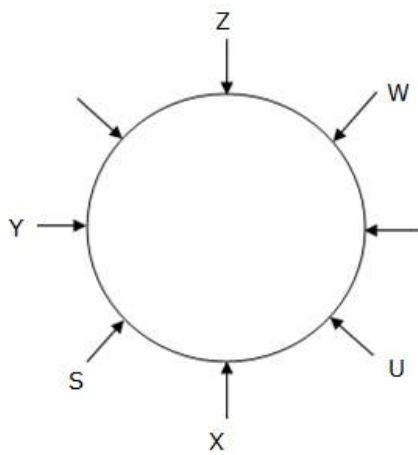
Case B

Case A(i)



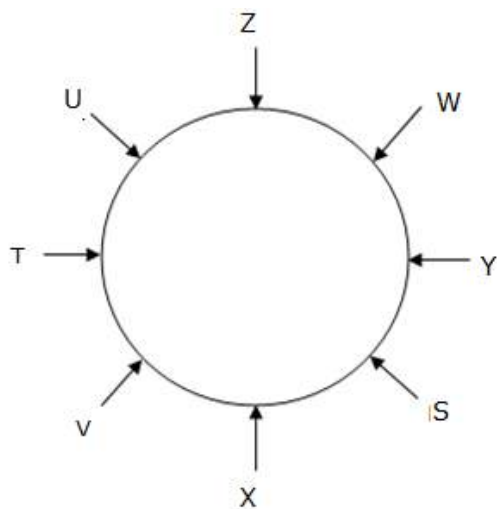
Case B(i)





Only two persons sit between V and Z. Y and T are facing each other.

Case A(i)



84. Who sits second to the right of Z?

- a) V
- b) X
- c) U
- d) S
- e) T

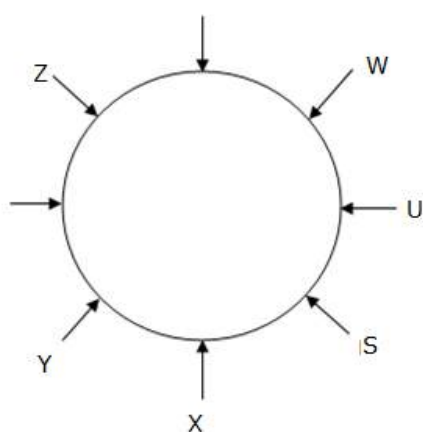
Ans: e



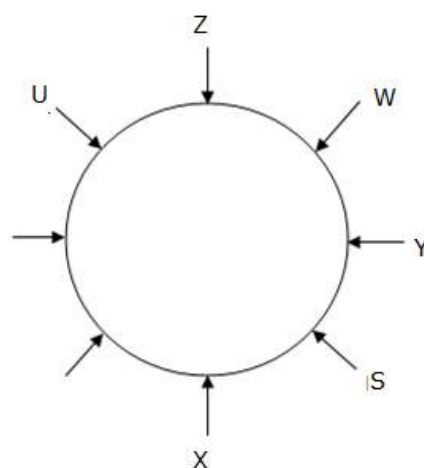
Exp:

W sits third to the right of X who is not immediate neighbour of T. S and X are immediate neighbours. T is not an immediate neighbour of S. Y sits third to the left of U. One person sits between Z and Y.

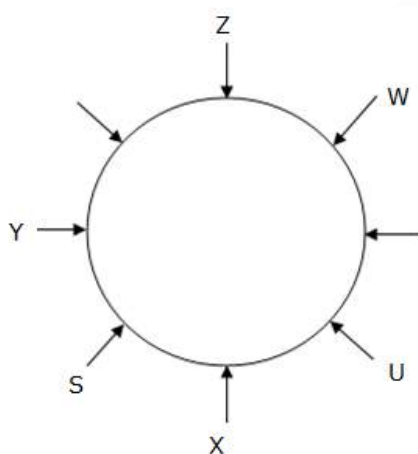
Case A



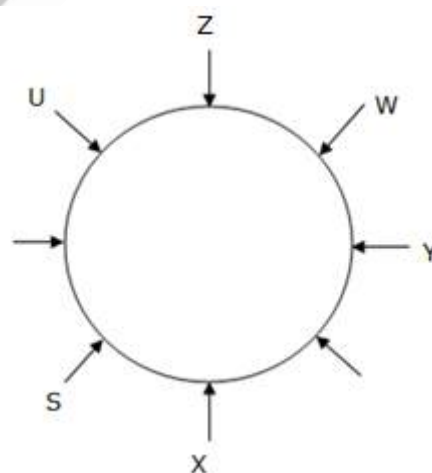
Case A(i)



Case B



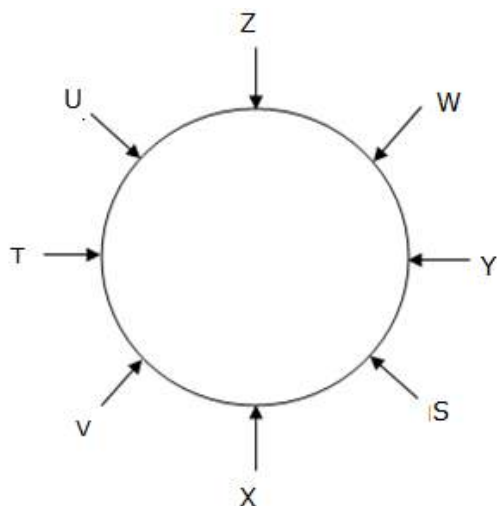
Case B(i)



Only two persons sit between V and Z. Y and T are facing each other.

Case A(i)





85. From the above question which of the following persons are odd numbered persons?

- a) V, S, T and U
- b) V, S, W and Y
- c) Y, S, Z and U
- d) V, S, W and U
- e) V, S, X and U

Ans: d

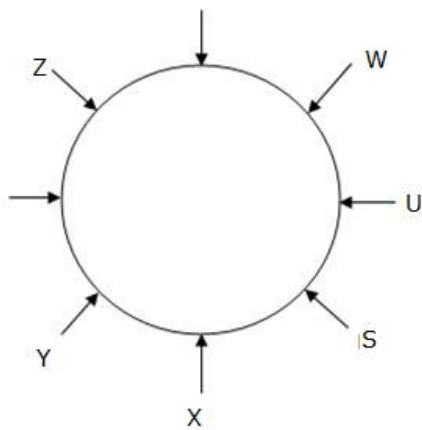
Exp:

W sits third to the right of X who is not immediate neighbour of T. S and X are immediate neighbours. T is not an immediate neighbour of S. Y sits third to the left of U. One person sits between Z and Y.

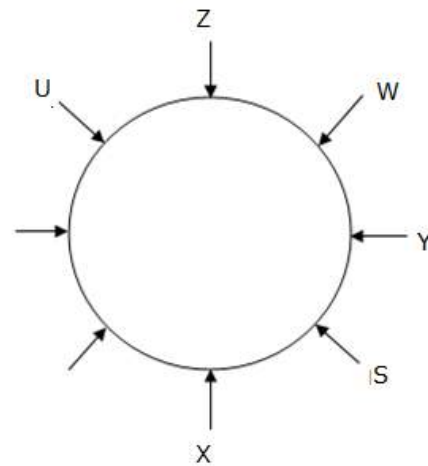
Case A

Case A(i)

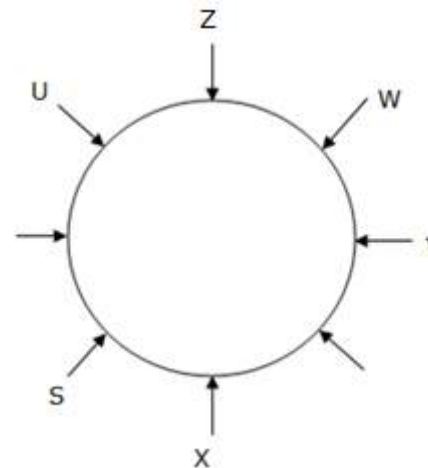
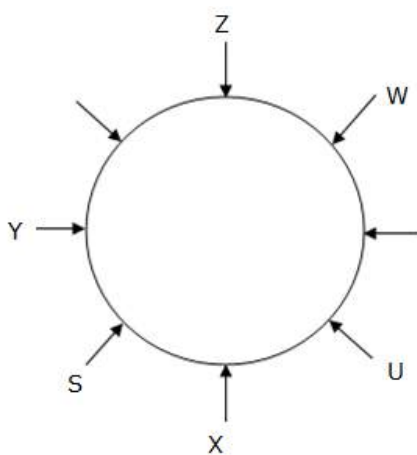




Case B

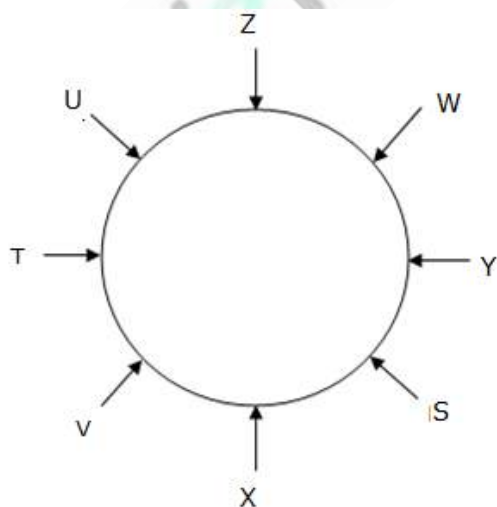


Case B(i)



Only two persons sit between V and Z. Y and T are facing each other.

Case A(i)



D. 86-90) Study the following information carefully and answer the questions given below.

Eight persons K, M, O, Q, S, U, W, and Z attend the seminar on three different months viz., February, May, August, and November on three different dates 18, 21 of the month but not necessarily in the same order.

Only three persons attend the seminar between K and U. Z and M attend the seminar on same month but not in February. O attends the seminar after Q. S attends the seminar immediately after K. Not more than two persons attend the seminar between Z and O. M and Q are attend the seminar on same date but not in same month.

86. Who among the following persons attend the seminar after M?

- a) Only U
- b) Only U and O
- c) Only Z and O
- d) Only O
- e) None of these

Ans: b

Exp:

U attend the seminar which is after the month of September. Only three persons attend the seminar between K and U.

Month	Date	Persons
February	18	
	21	
May	18	K
	21	S
August	18	
	21	
November	18	U
	21	



Z and M attend the seminar on same month but not in February. M and Q are attend the seminar on same date but not in same month. O attends the seminar after Q but not an immediate neighbour.

Month	Date	Persons
February	18	W
	21	Q
May	18	K
	21	S
August	18	Z
	21	M
November	18	U
	21	O

87. Which of the following statements is true?

- a) More than one person attend the seminar between Z and U
- b) More than one person attend the seminar between W and K
- c) More than one person attend the seminar between K and M
- d) More than one person attend the seminar between Q and S
- e) None is true

Ans: c

Exp:

U attend the seminar which is after the month of September. Only three persons attend the seminar between K and U.

Month	Date	Persons
February	18	
	21	
May	18	K



	21	S
August	18	
	21	
November	18	U
	21	

Z and M attend the seminar on same month but not in February. M and Q are attend the seminar on same date but not in same month. O attends the seminar after Q but not an immediate neighbour.

Month	Date	Persons
February	18	W
	21	Q
May	18	K
	21	S
August	18	Z
	21	M
November	18	U
	21	O

88. Which of the following statement is true about Q?

- a) Attends the seminar on 18
- b) Attends the seminar on November
- c) Attends the seminar on 21
- d) Attends the seminar on August
- e) Attends the seminar on May

Ans: c

Exp:



U attend the seminar which is after the month of September. Only three persons attend the seminar between K and U.

Month	Date	Persons
February	18	
	21	
May	18	K
	21	S
August	18	
	21	
November	18	U
	21	

Z and M attend the seminar on same month but not in February. M and Q are attend the seminar on same date but not in same month. O attends the seminar after Q but not an immediate neighbour.

Month	Date	Persons
February	18	W
	21	Q
May	18	K
	21	S
August	18	Z
	21	M
November	18	U
	21	O



89. Four of the following five are alike in a certain way based on the arrangement and hence form a group. Which one of the following does not belong to that group?

- a) WQ
- b) KS
- c) ZM
- d) SZ
- e) UO

Ans: d

Exp:

U attend the seminar which is after the month of September. Only three persons attend the seminar between K and U.

Month	Date	Persons
February	18	
	21	
May	18	K
	21	S
August	18	
	21	
November	18	U
	21	

Z and M attend the seminar on same month but not in February. M and Q are attend the seminar on same date but not in same month. O attends the seminar after Q but not an immediate neighbour.

Month	Date	Persons
February	18	W
	21	Q



May	18	K
	21	S
August	18	Z
	21	M
November	18	U
	21	O

90. Who among the following persons are attend the seminar on November?

- a) M, U
- b) Q, W
- c) S, Z
- d) Q, K
- e) U, O

Ans: e

Exp:

U attend the seminar which is after the month of September. Only three persons attend the seminar between K and U.

Month	Date	Persons
February	18	
	21	
May	18	K
	21	S
August	18	
	21	
November	18	U
	21	



Z and M attend the seminar on same month but not in February. M and Q are attend the seminar on same date but not in same month. O attends the seminar after Q but not an immediate neighbour.

Month	Date	Persons
February	18	W
	21	Q
May	18	K
	21	S
August	18	Z
	21	M
November	18	U
	21	O

D. 91-95) In each question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer.

91. Statement:

$$A \geq B > C = D \leq E = F \leq G$$

Conclusions:

I. $C > A$

II. $G \geq D$

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Both conclusion I and II follow



e) Neither conclusion I nor II follows

Ans: b

Exp:

$$A \geq B > C = D \leq E = F \leq G$$

I. $C > A$ (False)

II. $G \geq D$ (True)

92. Statement:

$$P = Q < R > S > T \geq U = V$$

Conclusion:

I. $S > V$

II. $S \geq U$

a) Only conclusion I follows

b) Only conclusion II follows

c) Either conclusion I or II follows

d) Both conclusion I and II follow

e) Neither conclusion I nor II follows

Ans: a

Exp:

$$P = Q < R > S > T \geq U = V$$

I. $S > V$ (True)

II. $S \geq U$ (False)

93. Statement:

$$K > L \geq M = N > O < P \leq Q$$

Conclusion:



I. $O < Q$

II. $K > O$

- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Either conclusion I or II follows
- d) Both conclusion I and II follow
- e) Neither conclusion I nor II follows

Ans: d

Exp:

$K > L \geq M = N > O < P \leq Q$

I. $O < Q$ (True)

II. $K > O$ (True)

94. **Statements:**

Only few tasks are bore.

No bore is discuss.

All discuss are noted.

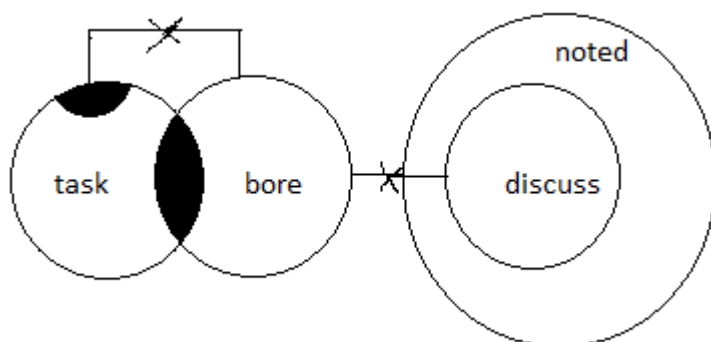
Conclusions:

- (i) All task being bore is a possibility.
 - (ii) Some noted being bore is a possibility.
- a) Only I follows
 - b) Only II follows
 - c) Either I or II follows
 - d) Neither I or II follows
 - e) Both I and II follow

Ans: b



Exp:



95. **Statements:**

Only few legs are ribs.

All legs are mouths.

All mouths are faces.

Conclusions:

(i) All face being ribs is a possibility.

(ii) Some ribs are not legs.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusion I and II follow

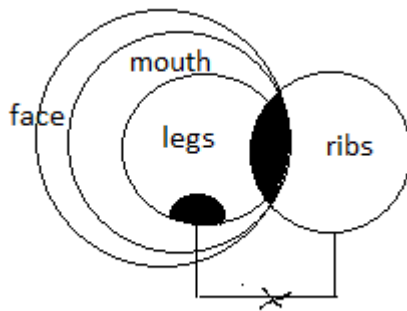
(d) Neither conclusion I nor conclusion II follows

(e) None of the above

Ans: d

Exp:





D. 96-100) Study the following information carefully and answer the questions given below:

Certain numbers of persons are sitting in a row. Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N. I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and C. I sits to the left of C.

96. How many persons sit between T and S?

- a) Two
- b) Three
- c) Five
- d) Four
- e) One

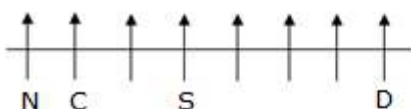
Ans: c

Exp:

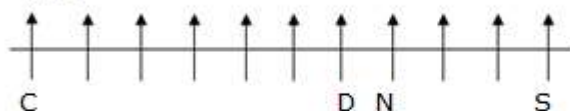
(i) Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N.



Case A



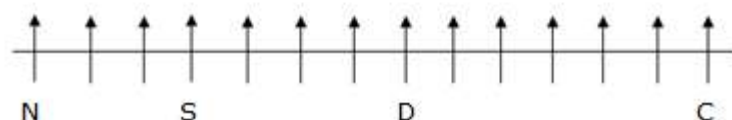
Case B



Case C



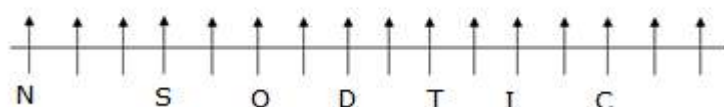
Case D



N is not an immediate neighbour of D and C. so Case A, B, C are eliminated.

(ii) I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and O is same the number of person sit between T and C. I sits to the left of C.

Case D



97. How many persons sit in a row?

- a) 15
- b) 14
- c) 17
- d) 16



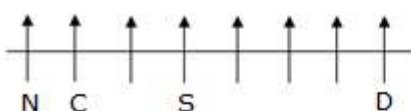
e) 18

Ans: d

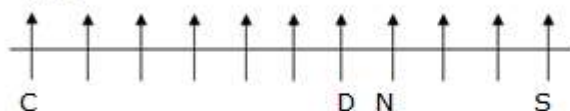
Exp:

(i) Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N.

Case A



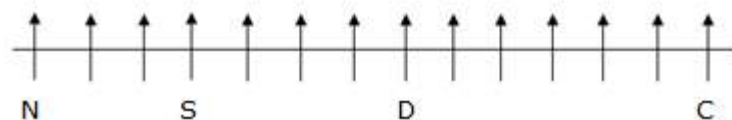
Case B



Case C



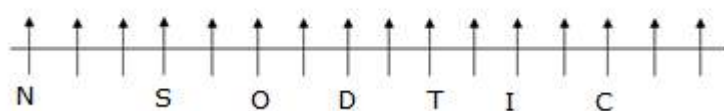
Case D



N is not an immediate neighbour of D and C. so Case A, B, C are eliminated.

(ii) I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and O is same the number of person sit between T and C. I sits to the left of C.

Case D



98. If Z sits third to the left of C then, who among the following persons is an immediate neighbour of Z?

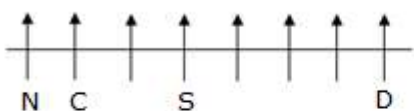
- a) T
- b) D
- c) O
- d) S
- e) N

Ans: a

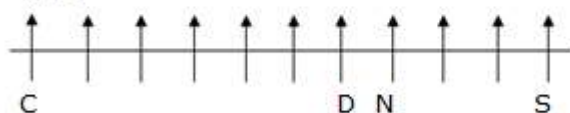
Exp:

(i) Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N.

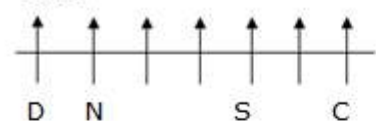
Case A



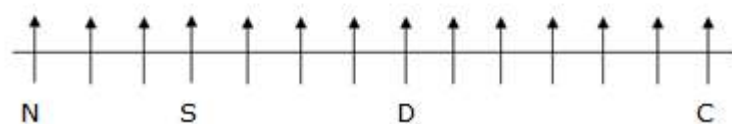
Case B



Case C



Case D

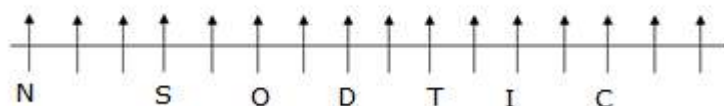


N is not an immediate neighbour of D and C. so Case A, B, C are eliminated.



(ii) I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and O is same the number of person sit between T and C. I sits to the left of C.

Case D



99. How many persons sit between N and O?

- a) Two
- b) Three
- c) Five
- d) Four
- e) One

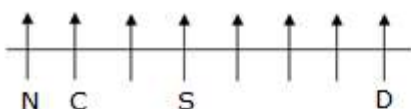
Ans: d

Exp:

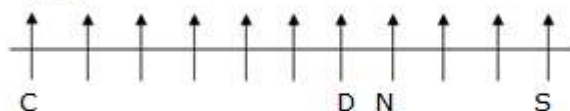
(i) Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N.



Case A



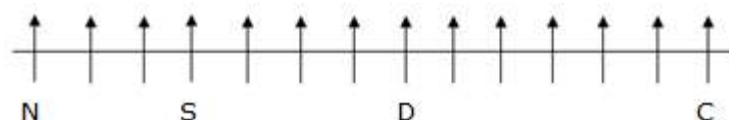
Case B



Case C



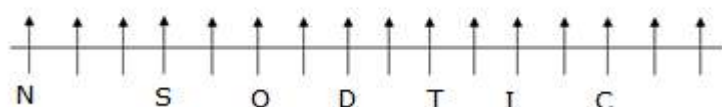
Case D



N is not an immediate neighbour of D and C. so Case A, B, C are eliminated.

(ii) I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and O is same the number of person sit between T and C. I sits to the left of C.

Case D



100. Who sits sixth from the left end of the row?

- a) O
- b) S
- c) N
- d) D



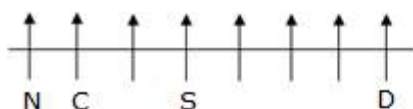
e) E

Ans: a

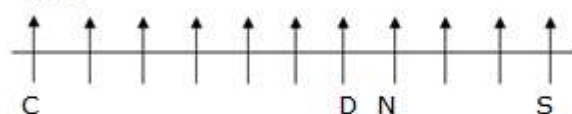
Exp:

(i) Five persons sit between C and D. N sits third to the left of S. Three persons sit between S and D. D and C is not an immediate neighbour of N.

Case A



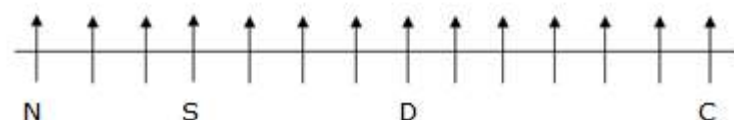
Case B



Case C



Case D



N is not an immediate neighbour of D and C. so Case A, B, C are eliminated.

(ii) I is fifth from the right end. I sits fourth to the right of D. Three persons sit between O and T. The number of person sit between T and O is same the number of person sit between T and C. I sits to the left of C.

Case D

