

## GIC Asst Manager Memory Based Paper- 2021

### PART A

**Directions (1-5):** Study the following information carefully and answer the questions given below:  
Seven persons Asha, Disha, Jiya, Om, Pooja, Sheela and Ravi like different types of social media platforms viz. Facebook, WhatsApp, Messenger, Instagram, Snapchat, Happen and Tinder but not necessarily in the same order. All they use different mobile phones i.e., Samsung, Apple, Micromax, Vivo, Redmi, Motorola and Nokia again not in the same order.

Jiya does not use Redmi Mobile. Asha does not use Nokia and Vivo mobiles. The one who likes Snapchat uses Vivo Mobile. Pooja does not like Tinder and Messenger. Ravi does not use Samsung mobile. Om likes Facebook but does not use Apple and Motorola mobile. The one who likes Tinder uses Samsung mobile. Sheela uses Micromax mobile. The one who likes WhatsApp uses either Nokia or Vivo. Jiya does not like Tinder, Messenger and WhatsApp. The one who likes Messenger uses Motorola mobile. Asha likes Happen but does not use Redmi Mobile.

**Q1. Who among the following uses Vivo Mobile?**

- (a) Disha
- (b) Pooja
- (c) Jiya
- (d) Asha
- (e) Ravi

**Q2. Which of the following mobile used by Om?**

- (a) Samsung
- (b) Redmi
- (c) Apple
- (d) Vivo
- (e) None of these

**Q3. Which of the following information is true with regarding to Jiya?**

- (a) Snapchat-Nokia
- (b) Facebook-Nokia
- (c) Snapchat-Vivo
- (d) Either (a) or (c)
- (e) Facebook- Vivo

**Q4. Who among the following is using Tinder?**

- (a) Disha
- (b) Pooja
- (c) Jiya
- (d) Sheela
- (e) None of these

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**Q5. Four of the following five pair are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?**

- (a) Disha-Samsung
- (b) Messenger-Motorola
- (c) Pooja- Nokia
- (d) Jiya - Apple
- (e) Ravi – Motorola

**Directions (6-10): Read the given information and answer the following question:**

Nine players of a Kho-Kho team stand in a row from left to right. Some of them face north while some of them face south. A stand fourth to the right of B. C neither stands adjacent to A and B nor stands at any of the extreme ends. One player stands between C and D. Even number of players stand to the right of D. Immediate neighbours of A face the same direction as D faces. Only two players stand between G and T who does not face north. T sits adjacent to B. More than three players stand between E and F. The number of players stand to the right of H and right of T are same. H and F face the same direction but opposite to E. The players stand at extreme ends face the same direction as C faces. Immediate neighbours of H, do not face north.

**Q6. How many players stand to the right of E?**

- (a) Seven
- (b) Five
- (c) Three
- (d) One
- (e) None of these

**Q7. Who among the following stands exactly between A and C?**

- (a) G
- (b) B
- (c) H
- (d) T
- (e) D

**Q8. Four among the following five are same in a certain manner and related to a group. Who among the following does not belong to the group?**

- (a) T
- (b) E
- (c) C
- (d) B
- (e) F

**Q9. How many players face north?**

- (a) Two
- (b) Six
- (c) Five
- (d) Three
- (e) Four

**Q10. What is the position of B with respect to E?**

- (a) Third to the left
- (b) Immediate right
- (c) Immediate left
- (d) Third to the right
- (e) Second to the left

**Directions (11-12):** Each question given below consists of a statement, followed by three or four arguments numbered I, II, III and IV. You have to decide which of the arguments is/are 'strong' argument(s) and which is/are 'weak' argument(s) and accordingly choose your answer from the alternatives given below each question.

**Q11. Statements:** Should all the indirect taxes in India be combined into a single tax on all commodities?

**Arguments:**

I. Yes. This will considerably simplify the tax collection mechanism and the cost of collecting tax will also reduce.

II. Yes. The manufacturers and traders will be benefited by this which in turn will boost tax collection.

III. No. No other country has adopted such system.

- (a) None is strong
- (b) Only I and III are strong
- (c) Only II is strong
- (d) Only II and III are strong
- (e) None of these

**Q12. Statements:** Should trade unions be banned completely?

**Arguments:**

I. Yes. Workers can concentrate on production.

II. No. This is the only way through which employees can put their demands before the management.

III. Yes. Employees get their illegal demands fulfilled through these unions.

IV. No. Trade unions are not banned in other economically advanced countries.

- (a) Only I is strong
- (b) Only II is strong
- (c) Only I and II are strong
- (d) Only I, II and III are strong
- (e) None of these

**Directions (13-14):** Below in each question are given two statements I and II. These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements.

**Given answer**

- (a) if statements I is the effect and Statement II is the immediate cause
- (b) if statements I is the immediate cause and statement II is its effect
- (c) if Statement I is the effect but Statement II is not its immediate cause
- (d) if Statement II is the effect but Statement I is not its immediate cause
- (e) if Both the Statements I and II are independent cause

**Q13. Statements:**

I. In the world's biggest conference on AIDS in Barcelona, officials in their declaration called for \$ 10 billion per year to be donated to the global AIDS fund and for at least two million people with HIV in developing countries to receive anti-retroviral treatment by 2012.

II. According to recent 2012 UN report, about 70 million people will die of AIDS over the next two decades in the 45 worst affected countries.

**Q14. Statements:**

I. 500000 people were forced to flee to Rwanda from the Eastern Congo town of Goma.

II. Fires burned out of control in the Eastern Congo town of Goma, after a nearby volcano sent 100-foot-wide rivers of lava flowing through the centre of the town and into Lake Kivu.

**Q15.** 1 million species at risk of extinction: UN. Industrial farming, fishing are factors that threaten to end existence of many species, says report. Relentless pursuit of economic growth, twinned with the impact of climate change, has put an "unprecedented" one million species at risk of extinction.

**Which of the following is a course of action for the following statement?**

- (I) This is the impact of the damage done by modern civilization to the natural world.
- (II) Only a wide-ranging transformation of the global economic and financial system could pull ecosystems that are vital to the future of species and human communities worldwide.
- (III) The essential, interconnected web of life on Earth is getting smaller and increasingly frayed due to this extinction.
- (IV) "This loss is a direct result of human activity and constitutes a direct threat to human well-being in all regions of the world."

- (a) Only I and II are implicit
- (b) Only II is implicit
- (c) Only III and II are implicit
- (d) All are implicit
- (e) Only I, II and III are implicit

**Directions (16-20): Study the following information carefully and answer the questions given below:**

Seven persons have interview on different days of a week which starts from Monday to Sunday. They all wears different colored shirts.

B goes on Wednesday. C does not wear yellow color shirt. Only one person goes between B and A. The one who wears pink color shirt goes immediately before the one who wears violet color shirt. F wears red color shirt and goes immediately before D. Only three person goes between A and C. Only two person goes between the one who wears violet color shirt and the one who wears green color shirt. Only one person goes between G and E who wears pink color shirt. The one who wears blue color shirt goes before the one who wears purple color shirt and after the one who wears yellow color shirt.

**Q16. Who among the following person wears yellow color shirt?**

- (a) E
- (b) A
- (c) F
- (d) The one who goes on Tuesday
- (e) None of these

**Q17. How many persons goes between the one who wears green color shirt and the one who goes on Sunday?**

- (a) Two
- (b) One
- (c) Four
- (d) Three
- (e) More than four

**Q18. Who among the following person goes on Friday?**

- (a) C
- (b) D
- (c) The one who wears violet colour shirt
- (d) Both (a) and (c)
- (e) None of these

**Q19. Four of the following five are alike in a certain way and hence form a group, which of the following does not belong to the group?**

- (a) A-B
- (b) G-C
- (c) C-D
- (d) E-F
- (e) B-C

**Q20. Which of the following statement is true?**

- (a) A wears green color shirt
- (b) F goes on Sunday
- (c) Only two person goes between G and A
- (d) B goes immediately before C
- (e) None is true

**Q21. Training and completing a first-time marathon reverse ageing of major blood vessels, according to a study which found that the older and slower runners benefit the most.**

**Which of the following can be inferred from the given statement?**

- (I) Only first-time marathon runners will get benefit from it.
  - (II) Those who run fast gets older earlier than others.
  - (III) Blood vessels play a major role in ageing of the person.
- (a) Only I and II are implicit
  - (b) Only III is implicit
  - (c) Only III and II are implicit
  - (d) All are implicit
  - (e) None is implicit

Directions (22): Just a few days back, WhatsApp confirmed that it won't delete users accounts on May 15 if they don't accept the new privacy policy.

"After giving everyone time to review, we're continuing to remind those who haven't had the chance to do so to review and accept," WhatsApp said. While the company is giving some more time to WhatsApp users, one will have to accept the new privacy policy if they want to use all the features of the app.

If anyone doesn't accept the new privacy policy, won't lose full functionality immediately as the company will gradually disable all the features.

**Q22. Which of the following can be hypothesized from the given sentence for updating policy of WhatsApp?**

- I. User was getting reminder to update the policy from WhatsApp.
  - II. WhatsApp has made plan, how to handle the users account after 15<sup>th</sup> May.
  - III. Many users will shift to another platform to use the messenger facility.
- (a) Only I and III
  - (b) Only II
  - (c) Only I
  - (d) Only II and III
  - (e) Only I and II

**Directions (23):** In one of the historical reforms of the economy of India, Rs 500 and Rs 1,000 notes were banned. This was one of the boldest movements by the Government of India announced over a 40-minute speech. Most of the industry and commoners alike reacted to this decision to curb corruption with overwhelming support. Whereas some sections are of the opinion that it is a draconian scheme causing

hardships to people. A recent study had pegged India's black-market economy at over Rs 30 lakh crore or about 20 percent of total GDP. This is even bigger than the GDP of countries like Thailand and Argentina.

**Q23. Rather getting support from most of the industry, what would have been the reason that some of them declared it as a draconian scheme?**

- (I) It was declared without giving time to people to withdraw ample cash for their use.
  - (II) It had caused certain hardships in daily activities.
  - (III) It stopped the earning of black money for majority of the people.
- (a) Only II and III
  - (b) Only III
  - (c) Only I and II
  - (d) Only I and III
  - (e) All of three

**Directions (24-25):** At least 85 forest fires are raging in Uttarakhand and have destroyed 165 acres of land in the past 24 hours to 48 hours, forcing the state to seek the Centre's intervention. Several sorties of the Indian Air Force were pressed into service to spray water over the fires even as it became clear that the state, with a forest cover of 71% of its area, still does not have an effective strategy to deal with forest fires.

**Q24. What course of action State Government should take to deal with forest fire issue which may prevent it in future?**

- (a) All the trees should be cut down and it should be made plain areas to intercept fire issues in future.
- (b) State Government should seek the help of van panchayats and local people in checking forest fires and set up fire control rooms and fire stations at tehsil and block levels.
- (c) The only effective way to deal with forest fires is getting locals involved to ensure that such fires aren't man-made and when fires start, enough people are mobilised to fight them.
- (d) Both (b) and (c)
- (e) Both (a) and (c)

**Q25. Which of the following can be assumed from the above statement?**

- (I) CM of Uttarakhand will resign as a failure to prevent the forest fire issues.
  - (II) Forest fires in the state is a long-term issue which are from years.
  - (III) Air force personnel got training to handle this type of situation.
  - (IV) Other states which covers major forest areas will be alert and take preventive measures.
  - (V) All the animals in Uttarakhand Forest will be shifted to another state forest area.
- (a) Only II and IV
  - (b) Only I, III and V
  - (c) Only I and V
  - (d) Only II, IV and V
  - (e) Only II, III and IV



**Directions (26-27):** According to the study, Air pollution accounts for one out of every eight deaths in India. India has one of the highest annual average ambient particulate matters PM2.5 exposure levels in the world. The effects of PM2.5 are more dangerous than any other particulate matter, as these particles with a size equal to, or smaller than 2.5mm, can easily get into the respiratory tract and settle in the lungs, and some may even get into our bloodstream.

**Q26. Which of the following abrogates the fact found in study?**

- (I) At least 11% of premature deaths in people less than 70 years of age is due to air pollution.
  - (II) The life expectancy in India will be increased by 1.7 years if pollution levels will get lower than the minimum levels associated with health loss.
  - (III) There are total of 7 cities of India in the list of top 20 world safest cities to breathe.
- (a) Only II
  - (b) Only I and III
  - (c) Only III
  - (d) All I, II & III
  - (e) None of them

**Q27. Which of the followings are not in line as per the above statement?**

- (I) The rising population will further increase the vehicle growth and so emissions will increase to a larger extent.
  - (II) The switch to public transport is needed to resolve the situation of air pollution.
  - (III) There is an emergent need for people to adopt a sustainable lifestyle that relies on lesser energy consumption technologies and equipment.
- (a) Only III
  - (b) Only II and III
  - (c) Only I and III
  - (d) Only I and II
  - (e) None of them

**Directions (28-32): Study the information carefully and answer the questions given below.**

Eight persons are living on four different floors of a building. Ground floor is numbered 1 and so on till the topmost floor is numbered 4. There are two flats on each floor- flat-1 and flat-2 from west to east such that flat 1 is west of flat 2. Flat-1 of second floor is exactly above flat-1 of first floor and other flats are placed in the same way. All of them likes different movies.

B lives east of H who lives south of D. A likes Brave and lives in even number flat. D lives North West of E's flat. C lives one of the floor below D's floor. One floor is between H and F who likes Aladdin Movie. H and F lives on same flat number. E does not live on second floor. Only one floor gap between the one who likes Dumbo Movie and the one who likes Frozen Movie. The one who likes Incredibles Movie does not live in even number flat and does not live in the west of A and B. G does not live in the same flat number in which E lives. G lives above E. The one who likes Coco lives west of the one who likes Zootopia Movie. The one who likes Frozen Movie lives above the floor of one who likes Coco Movie. The one who likes Moana Movie lives in even number flat.

**Q28. Who among the following likes Zootopia Movie?**

- (a) G
- (b) B
- (c) C
- (d) E
- (e) None of these

**Q29. Which of the following information is correct about G?**

- (a) G lives on an odd number Flat
- (b) G lives on the same floor as E
- (c) G likes Dumbo
- (d) G lives above B
- (e) Both (a) and (d)

**Q30. The person who lives immediate above E's floor and in the same flat number, likes which of the following movie?**

- (a) Frozen
- (b) Dumbo
- (c) Brave
- (d) Aladdin
- (e) None of these

**Q31. Which of the following movie likes by H?**

- (a) Aladdin
- (b) Zootopia
- (c) Coco
- (d) Incredibles
- (e) None of these

**Q32. Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?**

- (a) H
- (b) D
- (c) G
- (d) B
- (e) F

**Directions (33-34):** Below in each question are given two statements I and II. These statements may be either independent causes or may be effects of independent causes. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

**Mark answer**

- (a) if statement I is the cause and statement II is its effect.
- (b) if statement II is the cause and statement I is its effect.
- (c) if both the statement I and II are independent causes.
- (d) if both the statements I and II are effects of independent causes.
- (e) if both the statements I and II are effects of some common cause.

**Q33.** I. Bhuvneshwar Kumar, who is the main bowler of India got injured during world cup match against Pakistan.

II. India won the world cup match against Pakistan by 89 runs (DLS method.)

**Q34.** I. The prices of packed flour in the domestic market have fallen sharply in the recent month.

II. The Government has imported large quantities of wheat due to high demand of wheat flour.

Directions (35): In the following question a statement is given followed by two more statements numbered as I and II. You have to read both the statement and decide which of them strength which of them **strengthens or weakens** the statement.

**Q35. Statement-** As an emerging economic superpower, it is quite tragic that more than one in three children in India are stunted. Stunting is associated with an underdeveloped brain, with long-lasting harmful consequences, and increased risks of nutrition-related chronic diseases, such as diabetes, hypertension, and obesity in future. Thus, stunting can be classified by itself as an illness as it leads to negatively affecting the present and future of the child.

(I) Higher economic growth and increased spending on nutrition access programme have not resulted in proportionate decrease in child malnutrition or stunting.

(II) Multiple researchers have proven the link between illness and malnutrition/ stunting in children.

- (a) Both I and II strengthens
- (b) I strengthen while II weakens
- (c) II strengthens while I weaken
- (d) Statement I strengthen while Statement II is neutral.
- (e) Both I and II weakens.

Directions (36): **In the following question a statement is given followed by three assumptions numbered as I, II and III. You have to read all the statements and decide which of them follow.**

**Q36.** Rooftop solar power growth has demonstrated an overall positive trend, but this will need to be scaled up massively to achieve the national target.

**Assumption:**

(I) With ongoing improvements to solar cell efficiency and battery technology, rooftops will only get more attractive in the future.

(II) Major **solar** projects that connect to the grid often face the challenge of land acquisition and transmission connectivity.

(III) A survey helps determine usable rooftops, separating them from green spaces, and analyses the quality of the solar resource.

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

**Q37. Statement** - The Union health ministry has made Aadhaar a compulsory document for tuberculosis patients to be able to avail treatment under the government's Revised National Tuberculosis Control Programme (RNTCP).

- (I) A person cannot take treatment of TB without Aadhar card.
- (II) Patients suffering from TB will be unable to get cash benefits under a central government scheme till they produce their Aadhaar card.
- (III) An individual eligible to receive the benefit under the scheme, is hereby, required to furnish proof of possession of Aadhaar number or undergo Aadhaar authentication.
- (IV) The World Health Organisation(WHO) recently said that tuberculosis epidemic in India was "larger" than what had been previously estimated.

**Which of the following could be the outcome of the given statement?**

- (a) Only II
- (b) Only I and III
- (c) Only II and III
- (d) Only I
- (e) None of these

**Q38. Statement** - The Captain Amarinder Singh-led government in Punjab has announced free education for girls in government schools and colleges from Nursery to PhD.

- (I) Good social welfare law. It is initially for girls as they are comparatively disadvantaged. Hopefully it will soon be followed by free education for everyone.
- (II) It is gender biased as if a poor or average person wants to educate his son for higher education he has to pay higher bills .If you are introducing a law / scheme / bills under no circumstance it should not favour any particular gender, if they are really concerned about education.
- (III) Do not differentiate a poor or average person on gender. A poor boy or man should also get free education as well.

**Which of the following argument holds strong for the given statement?**

- (a) Only II
- (b) Only III
- (c) Only II and III
- (d) Only I and II
- (e) All of the above

**Q39. Statement** - Government plans a new social media policy to check anti-India activities, if it is being "misused" to conspire against India and spread anti-national propaganda.

(I) At present, there is only a set of "do's and don'ts" for the social media which needs to be graduated to a full-fledged guideline that should be adopted on such a network.

(II) The move assumes significance as there have been instances where terrorists were found to be using social media to conspire against the country or to propagate anti-India materials.

(III) There have also been instances where rumours spread on the social media had resulted in violence and tense situation in different parts of the country.

(IV) The misuse of social media is more challenging especially with reference to the situation in Jammu and Kashmir, because only social media is responsible to encourage terrorism in Jammu and Kashmir.

**Which of the following substantiates the given statement?**

- (a) Only II and IV
- (b) All except IV
- (c) Only II and III
- (d) Only IV
- (e) All except III

**Q40. Statement:** Ghana launched a fleet of drones to carry medical supplies to remote areas, with President Nana Akufo Addo declaring it would become the "world's largest drone delivery service". The craft are part of an ambitious plan to leapfrog problems of medical access in a country with poor roads.

**Which of the following can be deduced from the given statement?**

- (I) Drones supply medicines faster than the vehicles by road to the remotest areas.
  - (II) On road supply of medicines are much cheaper than the supply of medicines by drones.
  - (III) Other countries also following Ghana to provide medical services to its people across the country.
- (a) Only I and II are implicit
  - (b) Only III is implicit
  - (c) Only III and II are implicit
  - (d) All are implicit
  - (e) None is implicit

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## PART B

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**Directions (1-5): Study the information carefully and answer the questions given below.**

Eight persons A, B, C, D, P, Q, R and S are living in a four-story building such as ground floor is numbered as 1, just above it is floor numbered as 2 and so on till the topmost floor is numbered as 4. Each of the floors has 2 flats in it viz. flat-1 and flat-2. Flat-1 of floor-2 is immediately above flat-1 of floor-1 and immediately below flat-1 of floor-3 and so on. In the same way flat-2 of floor-2 is immediately above flat-2 of floor-1 and immediately below flat-2 of floor-3 and so on. Flat-1 is in west of flat-2.

There are two floors gap between P and D but both of them does not live in the same flat. S lives on an odd numbered floor and to the west to of B's flat. Only one floor gap is between P and C. C and D live in the different flat. A is living above Q's floor in the same flat. P lives on an even numbered floor. R is living on an even numbered flat.

**Q1. Who among the following lives in flat-1 of 3<sup>rd</sup> floor?**

- (a) R
- (b) S
- (c) D
- (d) None of these
- (e) Q

**Q2. Who among the following is/are living with C in the same numbered flat?**

- (a) P
- (b) S
- (c) Both (a) and (d)
- (d) B
- (e) Q

**Q3. Which among the following combination is/are true?**

- (a) A- Flat1
- (b) S- Floor 3
- (c) R- Flat 2
- (d) R- Floor 1
- (e) All are true

**Q4. How many floors are there between R and S?**

- (a) None
- (b) None of these
- (c) Two
- (d) One
- (e) Either one or two

**Q5. The number of floors gap between S and Q is same as the number of floors gap between \_\_.**

- (a) Q-A
- (b) P-R
- (c) B-C
- (d) S-R
- (e) B-D

**Directions (6-7): Each of the questions below consists of a question and two statements numbered I, and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read all the statements and answer the following questions.**

- (a) If the data in statement I alone are sufficient
- (b) If the data in statement II alone are sufficient
- (c) If the data either in statement I alone or statement II alone are sufficient to answer
- (d) If the data given in both I and II together are not sufficient
- (e) If the data in both the statements I and II together are necessary to answer

**Q6. Seven persons M, N, O, P, Q, R and S attend conference on seven different days from Sunday to Saturday but not necessarily in the same order. Who among the following attends the conference on Friday?**

**Statement I:** Three persons attend conference between M and P. S attends conference after P. R attends conference before S but not just before. S attends conference after Q. M does not attend the conference on Saturday.

**Statement II:** Two persons attend conference between R and M. R attends conference after O who attends conference just before N. At least one person attends conference before Q.

**Q7. There are eight persons in a family of three generation. Find how many married couples are in the family?**

**Statement I:** H is son in law of D who has two children. I is the only nephew of B who is sibling of F. A is mother of F who is mother-in-law of J. S is sister-in-law of F who is daughter of D. H has no siblings.

**Statement II:** S has no siblings. S is daughter in law of D. A has two children. Gender of A and S is same. F is spouse of brother-in-law of B. I is not daughter of H.

**Directions (8-9): Each of the questions below consists of a question and two statements numbered as I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.**

- (a) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- (b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- (c) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- (d) If the data given in both statements I and II together are not sufficient to answer the question.
- (e) If the data in both statements I and II together are necessary to answer the question.

**Q8. Five movies i.e. D1, D2, D3, D4 and D5 were released one after the other but not necessarily in the same order. Which among the following movies was released immediate before D3?**

I. D4 was released before D5 and After D2. D3 was released before D5.

II. D2 was released before D3. D4 was released before D3. D1 was released after D5.

**Q9. Six members i.e. A, B, C, D, E and F of a three-generation family having two married couples sit in a row and all face north direction but not necessarily in the same order. Who among the following persons sits at the extreme left end?**

I. A is married to B who is mother of C. C sits third to the left of A. F is nephew of C. D is an immediate neighbour of A.

II. D sits third to the right of his husband. D is sibling of C. E is the only neighbour of D's son.

**Directions (10-12): In each of the following questions below are given some statements followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.**

(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.

**Q10. Statement:** Only a few green is white. All white is silver. All pink is silver.

**Conclusion:** I. All pink can be green.

II. Some silver is not pink.

**Q11. Statement:** No class is room. Some room is wall. Only a few wall is window.

**Conclusions:** I. All wall is not class is a possibility.

II. All window is wall is a possibility.

**Q12. Statement:** Only prelims is mains. Only a few prelims is interview. No interview is final.

**Conclusions:** I. All mains is interview is a possibility.

II. All interview is prelims.

**Directions (13-14): Study the given information carefully and answer the questions based on it:**

In a family of six members, C is mother-in-law of G. M is sister of G's husband. B is father of M who is spouse of H. E is one of the members.



**Q13. What is the relation of E with respect to B's spouse?**

- (a) Daughter-in-law
- (b) Son-in-law
- (c) Son
- (d) Daughter
- (e) None of these

**Q14. What is the relation of C with respect to H?**

- (a) Sister-in-law
- (b) Wife
- (c) Mother
- (d) Mother-in-law
- (e) None of these

**Q15. How many pairs of letters are there in the word 'ACCOMPLISH', each of which have as many letters between them as they have in English alphabetical series (both forward and backward direction)?**

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

**Directions (16-20): Study the following information and answer the questions below:**

Nine boxes P, O, L, K, J, M, N, B and C are placed one above the other in a stack but not necessarily in the same order.

Five boxes are placed between K and B. B is placed below K. P is placed three places above B. Same number of boxes are placed above and below P and J respectively. The number of boxes placed between J and B is same as the number of boxes placed between P and M. Three boxes are placed between M and N. L is placed above O and below N.

**Q16. Which among the following box is placed 2<sup>nd</sup> from the top of the stack?**

- (a) P
- (b) M
- (c) C
- (d) J
- (e) L

**Q17. How many boxes are placed between C and L?**

- (a) Five
- (b) Three
- (c) Four
- (d) Six
- (e) Two

**Q18. Which among the following box is placed two places above O?**

- (a) M
- (b) J
- (c) N
- (d) P
- (e) None of these

**Q19. How many boxes are placed below L?**

- (a) Two
- (b) One
- (c) Three
- (d) Four
- (e) None of these

**Q20. Which among the following box is placed exactly between M and L?**

- (a) C
- (b) J
- (c) K
- (d) N
- (e) Either (b) or (d)

**Directions (21-25): Four words have been highlighted in each question, which may or may not be in their correct positions. Choose the rearrangement order of these highlighted words from the given options so that it gives a coherent sentence.**

**Q21.** The soldiers were able to **prevent (A)** the enemy's **attack (B)** and **repel (C)** their lines from being **breached (D)**.

- (a) ACDB
- (b) BADC
- (c) DBCA
- (d) CBAD
- (e) No rearrangement required

**Q22.** The company's profits **streamlined (A)** after the management **implemented (B)** cost-cutting **measures (C)** and **soared (D)** the operations.

- (a) DBCA
- (b) ACDB
- (c) DCBA
- (d) CBAD
- (e) No rearrangement required

**Q23.** The success of the diet plan **recommended (A)** on strict **adherence (B)** to the **regimen (C)** meal plan and exercise **depends (D)**.

- (a) ABDC
- (b) DBAC
- (c) ADBC
- (d) CADB
- (e) No rearrangement required

**Q24.** It's important to **regularly (A)** check your vehicle for any signs of **wear (B)** or damage. If you **notice (C)** anything suspicious, it's best to have it **inspected (D)** by a professional mechanic.

- (a) ABDC
- (b) BCAD
- (c) DCAB
- (d) ACBD
- (e) No rearrangement required

**Q25.** The **variety (A)** has a wide **restaurant (B)** of **including (C)** to choose from, **dishes (D)** vegetarian and gluten-free options.

- (a) ACBD
- (b) BADC
- (c) DBCA
- (d) CDAB
- (e) No rearrangement required

**Directions (26-28):** In each of the question given below, a statement has been given with a blank. Some words or phrases have been given in the options following the statement. Choose the most appropriate word or phrase that could fit in the statement to make it contextually meaningful and grammatically correct.

**Q26.** The teacher was impressed with the student's \_\_\_\_\_ answer to the difficult question.

- (a) garbled
- (b) verbose
- (c) concise
- (d) ambiguous
- (e) incoherent

**Q27. The principal's decision to cancel the sports event has created a lot of \_\_\_\_\_ among the students.**

- (a) joy
- (b) relief
- (c) disappointment
- (d) motivation
- (e) enthusiasm

**Q28. The doctor prescribed a \_\_\_\_\_ of antibiotics to treat the infection.**

- (a) course
- (b) analysis
- (c) healing
- (d) treatment
- (e) cure

**Directions (29-30): In each of the following questions, a sentence is given with a highlighted phrasal verb. For each question, five sentences are given as options, conveying the intended meaning of the sentence given in the question. Choose the sentence that conveys the intended meaning in the most appropriate way.**

**Q29. The company had to **lay off** a significant portion of its workforce due to financial constraints.**

- (a) The company rewarded its employees with a bonus for their hard work.
- (b) The company expanded its workforce to overcome financial difficulties.
- (c) The company terminated its employees without any reason.
- (d) The company hired more employees to increase its financial resources.
- (e) The company had to reduce its workforce because of financial limitations.

**Q30. The professor asked the students to **back up** their arguments with solid evidence.**

- (a) The professor requested that the students provide their arguments first.
- (b) The professor asked the students to abandon their arguments.
- (c) The professor encouraged the students to strengthen their arguments with supporting evidence.
- (d) The professor told the students to withhold their arguments.
- (e) The professor required the students to submit their arguments anonymously.

**Directions (31-35): Each of the following questions give a sentence which has been divided into four parts which might not be in their correct order of narrative. The sentence is then followed by five options, one of which gives the sequence of the rearranged parts to make the sentence meaningful. Choose the option which gives the correct sequence of the parts. If the sentence is already arranged in the correct sequence, then mark option " No arrangement required " as the answer.**

**Q31. comfortable travel for pedestrians (A)/ in increasing footfall as (B)/ well as ensuring more (C)/ providing easy access helps (D)/**

- (a) ABDC
- (b) DBCA
- (c) CABD
- (d) ADCB
- (e) No arrangement required

**Q32. the Election Commission is (A)/ aided college teaching faculties are participating (B)/ duty and all our government and (C)/ conducting the training for election (D)/**

- (a) CBAD
- (b) BDCA
- (c) DBCA
- (d) ADCB
- (e) No arrangement required

**Q33. the only mission in the country (A)/ the National Quantum Mission is (B)/ advanced country (C)/ where technology has not been adopted from any (D)/**

- (a) DCBA
- (b) ABDC
- (c) CABD
- (d) BADC
- (e) No arrangement required

**Q34. the Vizhinjam International (A)/ entry and exit gate complex and (B)/ Seaport will open its (C)/ allied cargo scanning facility (D)/**

- (a) ACBD
- (b) DBCA
- (c) CABD
- (d) ADCB
- (e) No arrangement required

**Q35. lead to better productivity in (A) / the importance of time management can (B) / both personal and professional life by (C) / managing time efficiently (D) /**

- (a) ACBD
- (b) CDBA
- (c) BACD
- (d) DCAB
- (e) No arrangement required

**Directions (36-40):** In the following questions, a sentence is divided into four parts. Choose the part of the sentence which may contain a grammatical error in it. If all the parts of the sentence are grammatically correct and contextually meaningful, choose option “No error” as the answer choice.

**Q36.** Each of the students (a)/ in the classroom (b)/ have their own (c)/ set of strengths and weaknesses. (d)/ No error. (e)

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

**Q37.** Despite of (a)/ the bad weather, (b)/ we decided (c)/ to go for a walk. (d)/ No error. (e)

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

**Q38.** If I was (a)/ you, I (b)/ would not (c)/ make that mistake. (d)/ No error. (e)

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

**Q39.** She speaks (a)/ both French (b)/ and Spanish (c)/ fluently than she speaks English. (d)/ No error. (e)

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

**Q40.** The doctor recommended (a)/ that he takes (b)/ the medication (c)/ twice a day. (d)/ No error. (e)

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

**Directions (41-45): Read the following passage and answer the questions given below. Some words are highlighted to help you answer some of the questions.**

Given everything we know about climate change, why are we still ignoring it? George Marshall's intriguing book, *Don't Even Think about It*, offers many answers, but the likely consequences of twenty years of top-level lies, dithering and obfuscation are left until the last chapter. This was probably a smart decision, because the news is all bad. 'Scientists,' Marshall writes, 'who are, as a group, extremely wary of exaggeration, nonetheless keep using the same word: catastrophe.' Their fear is that it's increasingly likely that the Earth's climate will warm by at least 4°C. Two degrees of warming, which the world's leaders have accepted as the supposedly safe 'upper limit', is bad enough. But according to one of the world's most influential climate scientists, John Schellhuber, 'the difference between two and four degrees is human civilisation.' Thanks to the global paralysis since 1992, the 'window of opportunity' for reducing emissions fast enough to avoid this scenario is starting to look more like a crack in the plaster. Four degrees of warming, Marshall tells us, is likely to bring heatwaves of magnitudes never experienced before, and temperatures not seen on Earth in the last five million years. Forty per cent of plant and animal species would be at risk of extinction, a third of Asian rainforests would be under threat and most of the Amazon would be at high risk of burning down. Crop yields would collapse, possibly by a third in Africa. US production of corn, soy beans and cotton would fall by up to 82 per cent. Four degrees guarantees the total melting of the Greenland ice sheet and probably the Western Antarctic ice sheet, which would raise sea levels by more than thirty feet. Two-thirds of the world's major cities would end up underwater. And we aren't looking at a multigenerational timescale: we may see a four-degree rise over the next sixty years. 'The science around four degrees keeps moving,' Marshall notes, 'usually in the direction of greater pessimism.'

**Q41. In the context of the passage, what does the author imply by the phrase "the difference between two and four degrees is human civilisation"?**

- (a) Two degrees of warming is inevitable for human civilization.
- (b) Human civilization is resilient enough to withstand four degrees of warming.
- (c) The impact of climate change on human civilization is dependent on temperature rise.
- (d) A four-degree warming could lead to the collapse of human civilization.
- (e) Human civilization has experienced similar temperature changes before.

**Q42. According to the passage, what is the significance of the term "window of opportunity" in the discourse on climate change?**

- (a) It refers to a period of time when climate change consequences are reversible.
- (b) It suggests the limited timeframe for implementing effective climate policies.
- (c) It highlights the uncertainty of climate predictions beyond a certain threshold.
- (d) It signifies the potential for dramatic shifts in global climate patterns.
- (e) It denotes the historical context of climate change research and awareness.

**Q43. Based on the passage, how has the scientific perspective on climate change consequences evolved over time?**

- (a) It has shifted from pessimism to optimism regarding potential impacts.
- (b) It has remained consistent in projecting catastrophic consequences.
- (c) It has become more aligned with the political discourse on climate change.
- (d) It has transitioned from uncertainty to greater certainty about potential risks.
- (e) It has oscillated between exaggeration and moderation of potential effects.

**Q44. According to George Marshall's book, "Don't Even Think about It," what psychological factors contribute to the collective ignorance of climate change?**

- (a) Exaggeration and sensationalism by media outlets
- (b) The inherent scepticism of scientists
- (c) Human tendency to avoid negative information
- (d) Inaccurate predictions by climate models
- (e) Disregard for the scientific consensus

**Q45. In the passage, what role does the concept of "global paralysis" play in exacerbating the climate change crisis?**

- (a) It refers to a lack of international cooperation on climate policies.
- (b) It highlights the inability of scientists to accurately predict climate impacts.
- (c) It emphasizes the need for immediate action to prevent catastrophic outcomes.
- (d) It suggests a deliberate attempt to downplay the severity of climate change effects.
- (e) It underscores the importance of political leadership in addressing climate change.

**Directions (46-49): What approximate value will come in place of question mark (?) in the following questions? (You are not expected to calculate the exact value)**

**Q46.**  $69.96\% \text{ of } 701 + \frac{3}{7} \times 686 - 121.06 = ?$

- (a) 563
- (b) 463
- (c) 663
- (d) 553
- (e) 583

**Q47.**  $332.88 \div 110.96 - 21.03 \times 19.98 + 24.02^2 = ?$

- (a) 149
- (b) 129
- (c) 119
- (d) 159
- (e) 169



**Q48.**  $28.98^2 - 13.02^3 + ? = 744 \times \frac{3}{2}$

- (a) 2140
- (b) 2340
- (c) 2440
- (d) 2540
- (e) 2472

**Q49.**  $(2)^? \% \text{ of } 499.99 + \sqrt{1296.01} = (13.98)^2$

- (a) 4
- (b) 2
- (c) 5
- (d) 6
- (e) 3

**Q50.** Ratio of Age of P & Q four years hence will be 3 : 5 respectively, while ratio of present age of R and Q is 5 : 6 respectively. If sum of age of P & R after six years will be 62 years, then find sum of present age of P & Q?

- (a) 64 years
- (b) 48 years
- (c) 52 years
- (d) 56 years
- (e) 72 years

**Q51.** A can do a piece of work in 15 days and B takes 40% more time than that of A to complete the same work. If A and B start working together, then find in how much time 60% of the work will be completed?

- (a) 6.25 days
- (b) 5.25 days
- (c) 4.25 days
- (d) 2.25 days
- (e) 7.25 days

**Q52.** Speed of boat in still water is 13 km/hr and the difference between downstream speed and upstream speed of boat is 10 km/hr. Find the time taken by boat to cover 80 km in upstream?

- (a) 8 hr
- (b) 2.5 hr
- (c) 7 hr
- (d) 10 hr
- (e) 5 hr

**Q53. The respective ratio of radius of a circle, length of a rectangle and side of a square is 7:6:3. If the ratio of length to breadth of the rectangle is 3:1 and sum of perimeter of circle, rectangle and square is 216 cm, then find the length of rectangle?**

- (a) 18 cm
- (b) 36 cm
- (c) 42 cm
- (d) 9 cm
- (e) 6 cm

**Q54. If the difference between compound interest and simple interest on Rs.8000 at the rate of R% per annum for two years is Rs.80, then find the value of R.**

- (a) 30
- (b) 15
- (c) 2
- (d) 5
- (e) 10

**Q55. Train A and train B running in same direction & take 1 minutes 20 sec to cross each other. If the speed of train A & train B are 90 km/hr and 72 km/hr respectively and length of train A is 100 meters more than that of train B, then find the length of the train A?**

- (a) 240 meter
- (b) 210 meter
- (c) 200 meter
- (d) 150 meter
- (e) 250 meter

**Q56. A and B started a business with investment of Rs.55000 & Rs.40000 respectively. After six months, C joined them and at the end of year profit share of C is Rs.10000 out of total profit of Rs.48000. Find the investment of C?**

- (a) Rs.54000
- (b) Rs.36000
- (c) Rs.60000
- (d) Rs.50000
- (e) Rs.40000

**Q57. Which of the following symbols is used to evaluate an expression in MS-Excel?**

- (a) \*
- (b) /
- (c) =
- (d) !
- (e) None of the above

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**Q58. If a network spans a large geographic area, what is it commonly referred to as?**

- (a) Large Area Network
- (b) Wide Area Network
- (c) Metropolitan Area Network
- (d) Storage Area Network
- (e) Personal Area Network

**Q59. DNS is an acronym for:**

- (a) Domain Name Security
- (b) Domain Number System
- (c) Document Name System
- (d) Domain Name System
- (e) None of the above

**Q60. Which type of storage device uses magnetic disks to store data?**

- (a) Solid-State Drive
- (b) Hard Disk Drive
- (c) Flash Drive
- (d) Optical Disc
- (e) ROM



## Solutions

### PART - A

**Directions (1-5):**

**Sol.** From the given statement, Om likes Facebook but does not use Apple and Motorola mobile. The one who likes Tinder uses Samsung mobile. Sheela uses Micromax mobile. The one who likes WhatsApp uses either Nokia or Vivo. Right now, we get two possibilities here, Case 1 and Case 2. Jiya does not like Tinder, Messenger and WhatsApp. The one who likes Messenger uses Motorola mobile.

Case 1			Case 2		
Persons	Social Media Platforms	Mobiles	Persons	Social Media Platforms	Mobiles
Om	Facebook		Om	Facebook	
	Tinder	Samsung		Tinder	Samsung
Sheela		Micromax	Sheela		Micromax
	WhatsApp	Nokia		WhatsApp	Vivo
Jiya			Jiya		
	Messenger	Motorola		Messenger	Motorola

Asha likes Happen but does not use Redmi Mobile. Jiya does not use Redmi Mobile. Asha does not use Nokia and Vivo mobiles.

Case 1			Case 2		
Persons	Social Media Platforms	Mobiles	Persons	Social Media Platforms	Mobiles
Om	Facebook	Redmi	Om	Facebook	Redmi
	Tinder	Samsung		Tinder	Samsung
Sheela		Micromax	Sheela		Micromax
	WhatsApp	Nokia		WhatsApp	Vivo
Jiya		Vivo	Jiya		Nokia
	Messenger	Motorola		Messenger	Motorola
Asha	Happen	Apple	Asha	Happen	Apple

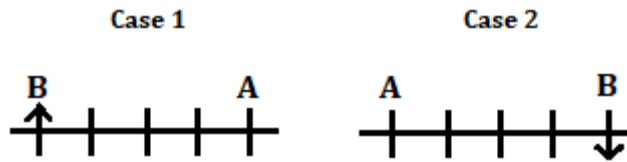
The one who likes Snapchat uses Vivo Mobile. From here Case 2 is ruled out. Pooja does not like Tinder and Messenger. Ravi does not use Samsung mobile. So, the final arrangement will be: -

Persons	Social Media Platforms	Mobiles
Om	Facebook	Redmi
Disha	Tinder	Samsung
Sheela	Instagram	Micromax
Pooja	WhatsApp	Nokia
Jiya	Snachat	Vivo
Ravi	Messenger	Motorola
Asha	Happen	Apple

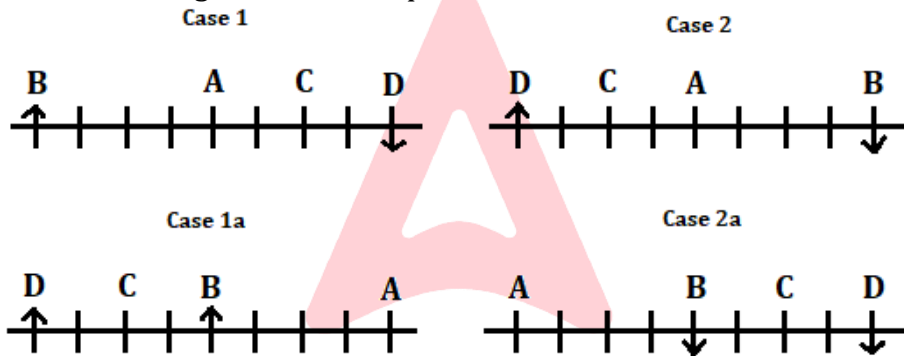
- S1. Ans. (c)
- S2. Ans. (b)
- S3. Ans. (c)
- S4. Ans. (a)
- S5. Ans. (d)

**Directions (6-10):**

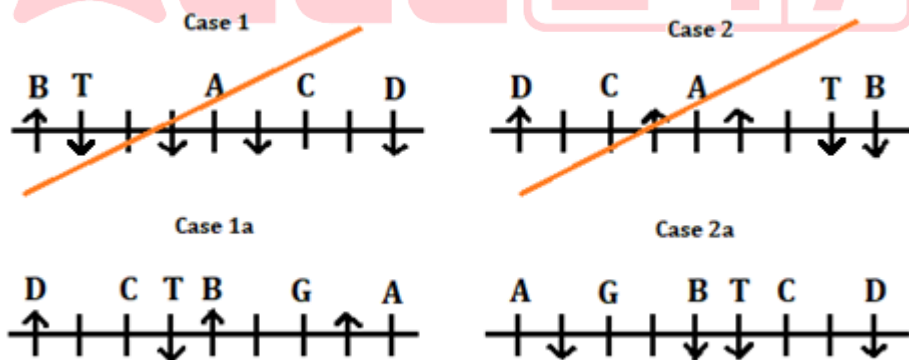
**Sol.** A stand fourth to the right of B. So, B can face either north or south. Hence, there are two possible cases.



C neither stands adjacent to A and B nor stands at any of the extreme ends. One player stands between C and D. Even number of players stand to the right of D. With the given statements, we get two more possible case i.e., Case 1a and 2a. Also, we get the definite place for C and D with the direction of D.

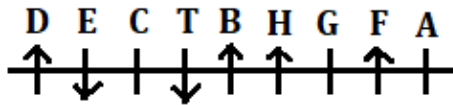


Immediate neighbours of A face the same direction as D faces. Only two players stand between G and T who does not face north. T sits adjacent to B. Case 1 and Case 2 will eliminate here because G could not be placed in these cases.

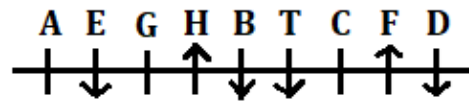


More than three players stand between E and F. The number of players stand to the right of H and right of T are same. H and F face the same direction but opposite to E. With these given statements, we get some definite information like, specific positions of all the players and definite direction of H, E, F is cleared.

Case 1a



Case 2a

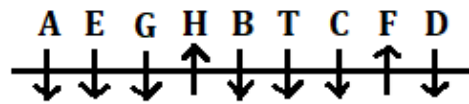


The players stand at extreme ends face the same direction as C faces. Immediate neighbours of H, do not face north. Case 1a will eliminate here because B stands adjacent to H and face north.

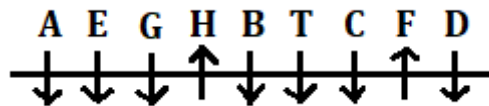
Case 1a



Case 2a



So, the final arrangement is:



**S6. Ans. (d)**

**Sol.** Only one player i.e., A stand to the right of E.

**S7. Ans. (c)**

**Sol.** H stands exactly between A and C.

**S8. Ans. (e)**

**Sol.** F face north while rest face south.

**S9. Ans. (a)**

**Sol.** Only two players face north.

**S10. Ans. (a)**

**Sol.** B stands third to the left of E.

**Directions (11-12):**

**S11. Ans. (e)**

**Sol.** Only I and II are strong.

Clearly, Both I and II hold strong, as they provide very convincing reasons, for a single tax system would help get rid of multifarious taxes on a product. Besides, the idea of imitation of other countries in the implementation of a certain policy holds no relevance. So, argument III does not hold strong.

**S12. Ans. (b)**

**Sol.** Clearly, trade unions provide a common platform for the workers to voice their demands and protests and thus ensure that they are not subdued or exploited. So, argument II holds strong, while I and III do not. Besides, the idea of imitation of other countries in the implementation of a certain policy, holds no relevance. So, argument IV also not hold strong.

**Directions (13-14):**

**S13. Ans. (a)**

**Sol.** Statement II is cause and Statement I is its effect. As statement II states that 70 million people will die of AIDS in upcoming time in worst affected countries and statement I states that officials donated some amount to the global AIDS fund and it will help 2 million people for their treatment so it is an effect which will turn out from the report of UN.

**S14. Ans. (a)**

**Sol.** Statement II is the cause and Statement I is its effect as after the fire burned out in eastern Goma, its people were forced to relocate to Rwanda.

**S15. Ans. (b)**

**Sol.** Only II is the course of action for the following as it provides information regarding the corrective steps that should be taken while I and IV provide information regarding the causes behind the extinction. III is discussing about the aftermath of this problem.

**Directions (16-20):**

**Sol.** It is given that; B goes on Wednesday. Only one person goes between B and A. Only three person goes between A and C. F wears red color shirt and goes immediately before D. Here, we have two possible cases.

Days	Case1		Case2	
	Person	Shirt's color	Person	Shirt's color
Monday	A		C	
Tuesday				
Wednesday	B		B	
Thursday				
Friday	C		A	
Saturday	F	red	F	red
Sunday	D		D	

Only one person goes between G and E who wears pink color shirt. The one who wears pink color shirt goes immediately before the one who wears violet color shirt. Only two persons goes between the one who wears violet color shirt and the one who wears green color shirt. The one who wears blue color shirt goes before the one who wears purple color shirt and after the one who wears yellow color shirt. C does not wear yellow color shirt. Here case2 get ruled out. So, final arrangement will be.

Days	Person	Shirt's color
Monday	A	yellow
Tuesday	G	green
Wednesday	B	blue
Thursday	E	pink
Friday	C	violet
Saturday	F	red
Sunday	D	purple

**S16. Ans. (b)**

**S17. Ans. (c)**

**S18. Ans. (d)**

**S19. Ans. (b)**

**S20. Ans. (e)**

**S21. Ans. (b)**

**Sol.** Only III can be inferred from the given statement as ageing of blood vessels reverses by marathon. I and II cannot be inferred as second time marathon runners or those who run fast do not get benefitted is not mandatory.

**S22. Ans. (e)**

**Sol.** It is clearly mentioned in the above that Users are getting reminder to update the policy. WhatsApp has made plan how features will gradually disable if users will not accept the new privacy policy. There is nothing discussed about the new platform, so we can't assume it.

**Directions (23):**

**S23. Ans. (e)**

**Sol.** Statement (I)-True-Reason: Ban was declared just after giving a 40-minute speech. So, people had not proper time to collect appropriate cash of the notes which was in use either it be Rs, 10, 50 or 100 notes. Statement (II) Statement (II)-True-Reason: Calling a decision of government, a draconian scheme it means they had certainly faced many hardships in their daily activities.

Statement (III) Statement (III)-True-Reason: In question it has been asked, what would have been the reason to call it a draconian scheme, it might be one of the reasons that the one who was earning black money in huge amount, their earning stopped suddenly.

**Direction (24-25):**

**S24. Ans. (b)**

**Sol.** State Government should tackle the issues of forest fires, it should be controlled. 71% of state is covered with forest cover. All the trees cannot be cut down.

Option (b) is the correct course of action; Fire control room and stations should be setup at tehsils and block levels.

Option(c) is one of the courses of action but it is not the only course of action. So, it will not be right answer.

**S25. Ans. (e)**

**Sol.** Option (I)-False-Reason: CM of Uttarakhand will take some immediate course of action, but resignation of CM can't be assumed.

Option (II)-True-Reason: It can be assumed as there is line in above statement "the state, with a forest cover of 71% of its area, still does not have an effective strategy to deal with forest fires" It shows this issue is from long time.

Option (III)-True-Reason: As air person have given responsibility to tackle the forest fire it means they got the training to handle this type of situation.



Option (IV)-True-Reason: As this is major issue for any state whose major geographical area is forest. So other state having major part as a forest will take lesson from what happened in Uttarakhand and will take some preventive measures.

Option (V)-False-Shifting all the animals from Uttarakhand Forest to another state forest area is not a practical case. So, it cannot be assumed.

**Directions (26-27):**

**S26. Ans. (c)**

**Sol.** In the above statement, concern and problem related to air pollution has been stated. Option I is about premature death whose reason is air pollution. So, it supports the fact found in study. Option II is stating about life span which can be increased by 1.7 years if pollution level will get controlled. So, II also supports the fact found in study. Option III nullifies the fact as there has been mention of seven cities of India in the list of top 20 world safest cities to breathe.

**S27. Ans. (e)**

**Sol.** Option (I) states about future increase of air pollution. So, it is in the line about the fact mentioned in the statement. Option II and III are also something about air pollution. So correct answer will be (e) None of them i.e. there are not any option which is not related to fact mentioned in statement.

**Directions (28-32):**

**Sol.** B lives east of H who lives south of D. One floor is between H and F, who likes Aladdin Movie. H and F lives on same flat number. D lives North West of E's flat. E does not live on second floor. There are three possibilities.

	Case-1		Case-2		Case-3	
Floor	Flat-1	Flat-2	Flat-1	Flat-2	Flat-1	Flat-2
4	D		D		F (Aladdin)	
3	H	B	F (Aladdin)	E	D	
2					H	B
1	F (Aladdin)	E	H	B		E

G does not live in the same flat number in which E lives. G lives above E. From these conditions, case-2 and Case-3 will be eliminated. C lives one of the floors below D's floor. A likes Brave and lives in even number flat. The one who likes Coco lives west of the one who likes Zootopia Movie. The one who likes Frozen Movie lives above the floor of one who likes Coco Movie. Only one floor gap between the one who likes Dumbo Movie and the one who likes Frozen Movie.

	Case-1	
Floor	Flat-1	Flat-2
4	D (Frozen)	A (Brave)
3	H (Coco)	B (Zootopia)
2	G (Dumbo)/	C (Dumbo)/
1	F (Aladdin)	E

The one who likes Incredibles Movie does not live-in even number flat and does not live in the west of A and B. The one who likes Moana Movie lives in even number flat. The final arrangement is-

Floor	Flat-1	Flat-2
4	D (Frozen)	A (Brave)
3	H (Coco)	B (Zootopia)
2	G (Incredibles)	C (Dumbo)
1	F (Aladdin)	E (Moana)

**S28. Ans. (b)**

**S29. Ans. (a)**

**S30. Ans. (b)**

**S31. Ans. (c)**

**S32. Ans. (d)**

**Directions (33-34):**

**S33. Ans. (d)**

**Sol.** Bhuvneshwar Kumar, who is the main bowler of India got injured while playing. And India won world-cup due to its brilliant performance So both statement I and statement II are effects of independent causes.

**S34. Ans. (d)**

**Sol.** As the fallen of demand may have lead to decrease prices of flour in the market so it is an effect and as the demand is high so the government imported the wheat flour so it is an effect of some cause. So, statement II and statement I are effects of independent causes.

**S35. Ans. (d)**

**Sol.** Statement I strengthen the given statement as even the economic growth is higher the problem of stunting is kept on increasing among children. But statement II is neutral statement.

**S36. Ans. (d)**

**Sol.** Only (I) can be assumed from the given statement as it is mentioned in the given statement that rooftop solar power technology is showing growth.

**S37. Ans. (c)**

**Sol.** In the above question we have to find the result of the above statement.

For I-This cannot be the result because if a person does not have Aadhar, he/she will not get government help in treatment but can take treatment of TB without Aadhar.

For II-This could be the result as mentioned in the given statement that patients need Aadhar card to get benefits under government scheme.

For III-This also could be the result because it is clear from the given statement that to get benefits of the scheme verification of Aadhar will be required.

For IV-This is not the result of the given statement because this statement states that cases of TB patients increased in India now which is not directly related to the statement.

**S38. Ans. (c)**

**Sol.** For I- This argument does not hold strong because this initiative is for girls to get benefited initially but it is not like that education will make free for everyone.

For II-This argument also holds strong because a law/scheme or bill should not be for any particular gender but it should be for the one who really need it.

For III-This is also strong because gender should not be the criterion for the free education. It is the poor who should get the benefits.

**S39. Ans. (b)**

**Sol.** In the above question we have to find which statement supports the given statement.

For I-This statement supports the given statement because there should be some guideline on social media to stop this anti national propaganda as given in the statement.

For II-This is also true because this move will help to stop terrorist from using social media as a platform to encourage terrorism.

For III-It also substantiates the importance of this policy as rumors on social media will further provoke riots in the country.

For IV-This could not substantiate from the given statement as it states that only social media is responsible for terror activities in Jammu and Kashmir. So, this is false.

**S40. Ans. (e)**

**Sol.** None of the given statement can be deduced from the given statement as the statement states about the newly launched drone facility in Ghana to supply medical facility to the remote areas where the conditions of roads are not up to the mark but it does not provide enough information about its faster delivery system or its high price range. Also, we don't have enough data regarding the other countries take on it.

## PART - B

**Directions (1-5):**

From the given statements, there are two floors gap between P and D but both of them does not live in the same flat. P lives on an even numbered floor. S lives on an odd numbered floor and to the west of B's flat. Here, we have two possible cases i.e., case1 and case2.

Floor	Case 1		Case 2	
	Flat-1	Flat-2	Flat-1	Flat-2
4	P			P
3	S	B	S	B
2				
1		D	D	

Only one floor gap is between P and C. C and D live in the different flat. A is living above Q's floor in the same flat. R is living on an even numbered flat. So, case1 gets eliminated here and the final arrangement is:

Floor	Flat-1	Flat-2
4	A	P
3	S	B
2	Q	C
1	D	R

S1. Ans. (b)

S2. Ans. (c)

S3. Ans. (e)

S4. Ans. (d)

S5. Ans. (c)

**Directions (6-7):**

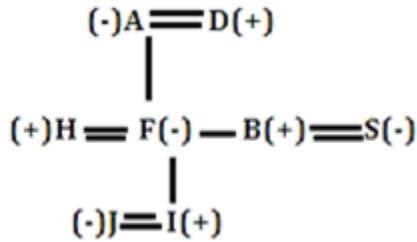
S6. Ans. (e)

**Sol.** Statement I and statement II are alone not sufficient to determine the answer. After combining both statements I and II we get to know that Q attends the conference on Friday.

Days	Persons
Sunday	M
Monday	O
Tuesday	N
Wednesday	R
Thursday	P
Friday	Q
Saturday	S

**S7. Ans. (a)**

**Sol.** H is son in law of D who has two children. I is the only nephew of B who is sibling of F. A is mother of F who is mother-in-law of J. S is sister-in-law of F who is daughter of D. H has no siblings.



So, statement I alone is sufficient to determine the answer that there are four married couples in the family.

**Directions (8-9):**

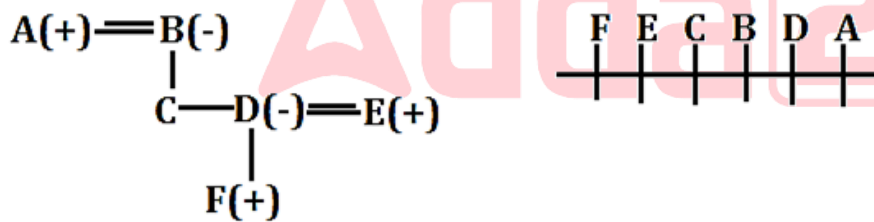
**S8. Ans. (e)**

**Sol.** From both I and II we get to know that D4 was released immediate before D3.

Movies
D2
D4
D3
D5
D1

**S9. Ans. (e)**

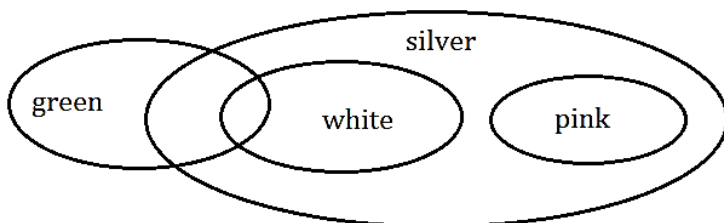
**Sol.** From both I and II we get to know that F sits at the extreme left end.



**Directions (10-12):**

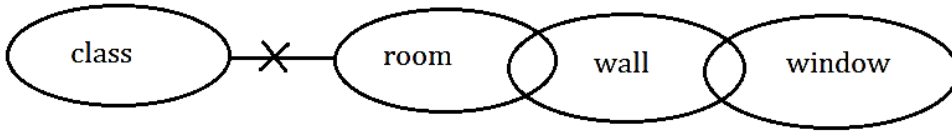
**S10. Ans. (a)**

**Sol.**



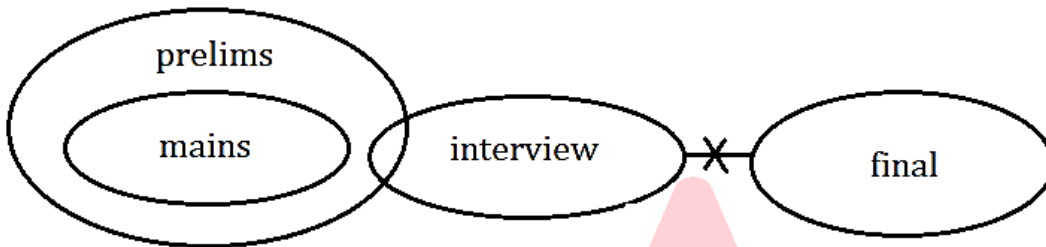
S11. Ans. (e)

Sol.



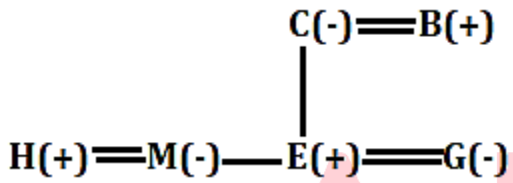
S12. Ans. (d)

Sol.



Directions (13-14):

Sol.



S13. Ans. (c)

Sol. Son

S14. Ans. (d)

Sol. Mother-in-law

S15. Ans. (e)

Sol.



There are five pairs.

Directions (16-20):

Sol. Five boxes are placed between K and B. B is placed below K. P is placed three places above B. Same number of boxes are placed above and below P and J respectively. There are two possible cases.

Boxes	
Case 1	Case 2
K	
	K
P	J
J	P
B	
	B

The number of boxes placed between J and B is same as the number of boxes placed between P and M. Three boxes are placed between M and N. L is placed above O and below N. Case 1 will eliminate here. So, the final arrangement is:

Boxes
M
C
K
J
N
P
L
O
B

S16. Ans. (c)

S17. Ans. (c)

S18. Ans. (d)

S19. Ans. (a)

S20. Ans. (b)

S21. Ans. (d)

**Sol.** The correct rearrangement order of the highlighted words will be CBAD. The sentence thus formed would be "The soldiers were able to repel the enemy's attack and prevent their lines from being breached." The given sentence means that the soldiers were successful in driving back the enemy's attack and preventing them from breaking through their defense lines.

Repel: to drive back or ward off an attack or an enemy

Prevent: to stop something from happening or to keep something from occurring

In the given sentence, "breached" means to break through or penetrate a defensive line or barrier. It refers to the enemy's attempt to cross or break through the soldiers' defensive line, but the soldiers were able to prevent that from happening. In a broader sense, "breached" can also refer to violating or breaking a contract, agreement, or rule.

**S22. Ans. (a)**

**Sol.** The correct rearrangement order of the highlighted words will be DBCA. The sentence thus formed would be "The company's profits soared after the management implemented cost-cutting measures and streamlined the operations."

The sentence means that the company's profits increased significantly after the management took steps to reduce costs and improve efficiency in their operations.

Soared: To rise or increase rapidly and to a great height.

Implemented: To put into effect or action.

Streamlined: To make something more efficient or organized by removing unnecessary steps or processes.

**S23. Ans. (b)**

**Sol.** The correct rearrangement order of the highlighted words will be DBAC. The sentence thus formed would be "The success of the diet plan depends on strict adherence to the recommended meal plan and exercise regimen."

The given sentence means that the success of the diet plan is dependent on following the recommended meal plan and exercise regimen strictly.

The word "adherence" means the act of sticking or adhering to a particular rule or set of guidelines. In the given sentence, strict adherence to the recommended meal plan and exercise regimen is necessary for the success of the diet plan.

The word "regimen" means a set of rules, guidelines, or procedures that are followed for achieving a specific goal, such as maintaining good health. In the given sentence, the recommended meal plan and exercise regimen are necessary for the success of the diet plan.

**S24. Ans. (e)**

**Sol.** The given sentence is fairly straightforward and grammatically correct. Hence no rearrangement is required

**S25. Ans. (b)**

**Sol.** The only rearrangement of words to make the sentence grammatically and contextually correct is BADC. The sentence after meaningful rearrangement of the words will be, "The **restaurant** has a wide **variety** of **dishes** to choose from, **including** vegetarian and gluten-free options." The original sentence is contextually invalid and no other option gives a valid rearrangement of words to make the sentence correct.

**S26. Ans. (c)**

**Sol.** The most appropriate word that could fit in the blank to make the sentence contextually meaningful and grammatically correct is **concise**. Concise means giving a lot of information clearly and in a few words, and it is the best option for this sentence. The sentence talks about a student who gave a clear and brief answer to a difficult question, which impressed the teacher.

Option (a) garbled is an incorrect option as it means (of something said) confused and unclear, or giving a false idea



Option (b) verbose is an incorrect option as it means using too many words, which is the opposite of what the sentence is trying to convey.

Option (d) ambiguous is an incorrect option as it means open to more than one interpretation, which doesn't fit the context of the sentence.

Option (e) incoherent is an incorrect option as it means unclear or confusing, which doesn't fit the context of the sentence.

### S27. Ans. (c)

**Sol.** The most appropriate word that could fit in the blank to make the sentence contextually meaningful and grammatically correct is **disappointment**. Disappointment means sadness or displeasure caused by the non-fulfilment of one's hopes or expectations.

Option (a) joy and Option (b) relief are incorrect options as they both convey positive emotions, which don't fit the context of the sentence. Joy means a feeling of great pleasure and happiness. Relief means a feeling of reassurance and relaxation following release from anxiety or distress.

Option (d) motivation and Option (e) enthusiasm are also incorrect options as they both convey positive feelings, which don't fit the context of the sentence. Motivation means a reason or reasons for acting or behaving in a particular way. Enthusiasm means intense and eager enjoyment, interest, or approval.

### S28. Ans. (a)

**Sol.** The most appropriate word that could fit in the blank to make the sentence contextually meaningful and grammatically correct is **course**. Course means a series of medical treatments, and it is the best option for this sentence. The sentence talks about a doctor prescribing a course of antibiotics to treat an infection.

Option (b) analysis is an incorrect option as it means detailed examination of the elements or structure of something.

Option (c) healing is an incorrect option as it means the process of making or becoming sound or healthy again.

Option (d) treatment is an incorrect option as it means medical care given to a patient for an illness or injury.

Option (e) cure is an incorrect option a substance or treatment that cures a disease or condition.

### S29. Ans. (e)

**Sol.** The phrasal verb "**lay off**" in the sentence means to terminate or dismiss employees from their jobs, typically due to financial difficulties or a reduction in workforce. The key idea here is that the company had to reduce its workforce because of financial limitations.

So, the correct sentence conveying the intended meaning is:

**(e) The company had to reduce its workforce because of financial limitations.**

This option accurately represents the fact that the company had to let go of employees because of financial constraints, which is the meaning implied by the phrasal verb "lay off" in the original sentence.

Incorrect options:

(a) **The company rewarded its employees with a bonus for their hard work:** This option is incorrect because it conveys the opposite meaning of what the original sentence is trying to convey. The original sentence is about job terminations due to financial constraints, whereas this option suggests employee rewards.

(b) **The company expanded its workforce to overcome financial difficulties:** This option is incorrect because it contradicts the meaning of the original sentence. The original sentence talks about reducing the workforce, while this option suggests hiring more employees, which is not in line with the phrasal verb "lay off."

(c) **The company terminated its employees without any reason:** This option is incorrect because it implies that the company terminated employees for no apparent reason, which is not the context provided in the original sentence. The original sentence clearly states that the terminations were due to financial constraints.

(d) **The company hired more employees to increase its financial resources:** This option is incorrect because it suggests that the company hired more employees to improve its financial situation. Again, this contradicts the meaning of the original sentence, which is about reducing the workforce due to financial limitations.

In summary, option (e) "The company had to reduce its workforce because of financial limitations" is the correct choice because it accurately represents the intended meaning of the original sentence, which is about layoffs due to financial constraints.

### S30. Ans. (c)

**Sol.** The phrasal verb "**back up**" in this context means to support or reinforce something with evidence. The professor is requesting that the students provide evidence to support their arguments.

So, the correct sentence conveying the intended meaning is:

**(c) The professor encouraged the students to strengthen their arguments with supporting evidence.**

This option is correct. It accurately conveys the intended meaning of the original sentence. The professor is asking the students to strengthen their arguments by providing solid evidence.

Incorrect options:

(a) **The professor requested that the students provide their arguments first:** This option is incorrect because it changes the meaning of the sentence. The original sentence is about supporting arguments with evidence, while this option suggests providing arguments without any evidence.

(b) **The professor asked the students to abandon their arguments:** This option is incorrect because it suggests that the professor wanted the students to give up on their arguments, which is the opposite of what is implied by "back up."

(d) **The professor told the students to withhold their arguments:** This option is incorrect because it suggests that the professor wanted the students to keep their arguments to themselves, which is not the meaning of "back up."

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(e) **The professor required the students to submit their arguments anonymously:** This option is incorrect because it introduces the concept of anonymity, which is not present in the original sentence. The original sentence is about providing evidence, not about submitting arguments anonymously. In summary, the correct answer is (c) "The professor encouraged the students to strengthen their arguments with supporting evidence." This option accurately represents the idea that the professor is asking the students to provide evidence to support their arguments, which is the meaning of "back up" in this context.

**S31. Ans. (b)**

**Sol.** The right answer choice is DBCA. The sentence thus arranged is, "Providing easy access helps in increasing footfall as well as ensuring more comfortable travel for pedestrians."

**S32. Ans. (d)**

**Sol.** The right answer choice is ADCB. The sentence thus arranged is, "The Election Commission is conducting the training for election duty and all our government and aided college teaching faculties are participating."

**S33. Ans. (d)**

**Sol.** The right answer choice is BADC. The sentence thus arranged is, "The National Quantum Mission is the only mission in the country where technology has not been adopted from any advanced country."

**S34. Ans. (a)**

**Sol.** The right answer choice is ACBD. The sentence thus arranged is, "The Vizhinjam International Seaport will open its entry and exit gate complex and allied cargo scanning facility."

**S35. Ans. (c)**

**Sol.** The right answer choice is BACD. The sentence thus arranged is, "The importance of time management can lead to better productivity in both personal and professional life by managing time efficiently."

**S36. Ans. (c)**

**Sol.** In part (c), the use of "their" is incorrect because "each" is a singular pronoun, and it requires a singular possessive pronoun "his" or "her". Therefore, the error is in part (c). The rest of the parts do not show any errors against the general context of the sentence. Therefore, the correct sentence would be: "Each of the students in the classroom has his or her own set of strengths and weaknesses."

**S37. Ans. (a)**

**Sol.** In part (a), the preposition “of” is not used correctly. “Despite” is a preposition that means “without being affected by” or “in spite of”. It is always used without the preposition “of” following it. Therefore, the error is in part (a). To correct the error, we can remove the preposition “of” after “despite”. The rest of the parts do not show any errors against the general context of the sentence.

Therefore, the correct sentence would be: “Despite the bad weather, we decided to go for a walk.”

**S38. Ans. (a)**

**Sol.** In part (a), the verb “was” should be in the subjunctive mood “were” to express a hypothetical situation. Therefore, the error is in part (a). The rest of the parts do not show any errors against the general context of the sentence.

Therefore, the correct sentence would be: “If I were you, I would not make that mistake.”

**S39. Ans. (d)**

**Sol.** In part (d), the comparative adverb “fluently than” should be replaced with “more fluently than” to make a correct comparison. The correct way to form a comparison is to use “more” before the adjective or adverb and to add “than” after it. So, the correct structure is “more + adjective/adverb + than”. Therefore, the error is in part (d). The rest of the parts do not show any errors against the general context of the sentence.

Therefore, the correct sentence would be: “She speaks both French and Spanish more fluently than English.”

**S40. Ans. (b)**

**Sol.** In part (b), the verb “takes” is not in the correct tense. The verb following “recommended” should be in the present tense in a subjunctive mood, which is commonly used to express hypothetical or unlikely situations. The present subjunctive tense for the third person singular is formed by using the base form of the verb (infinitive) without adding “s”. Therefore, the error is in part (b). The rest of the parts do not show any errors against the general context of the sentence. To correct the error, we need to use the base form of the verb “take” in the present subjunctive mood.

Therefore, the correct sentence would be: “The doctor recommended that he take the medication twice a day.”

**S41. Ans. (d)**

**Sol.** A detailed analysis of the options given by the question is given below.

**ANALYSIS**

**Valid Option:** Option (d)

The correct answer reflects the implications of the author's statement in the passage. The author is highlighting the critical importance of limiting global temperature rise to avoid catastrophic consequences for human civilization. The statement emphasizes that the difference between a two-degree and a four-degree increase in temperature has a profound impact on the viability of human civilization. A four-degree warming is associated with severe consequences, including widespread ecosystem damage, rising sea levels, and potential collapse of major cities, which could indeed lead to the collapse of human civilization.

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Incorrect Options:

- (a) This option misinterprets the meaning of the author's statement. The author is not suggesting that two degrees of warming are inevitable for human civilization.
- (b) This option contradicts the author's warning about the potential collapse of human civilization due to a four-degree warming. The author is not implying that human civilization is resilient enough to withstand such warming.
- (c) While the impact of climate change is indeed dependent on temperature rise, the author's statement is more focused on the dire consequences associated with a four-degree increase in temperature.
- (e) This option is not supported by the passage. The author is discussing the unprecedented and severe consequences of a four-degree temperature rise, not comparing it to past temperature changes experienced by human civilization.

**S42. Ans. (b)**

**Sol.** A detailed analysis of the options given by the question is given below.

**ANALYSIS**

Valid Option: Option (b)

The correct answer accurately captures the meaning of the term "window of opportunity" as discussed in the passage. The passage mentions that due to global paralysis and inaction, the window of opportunity for reducing emissions and avoiding catastrophic consequences of climate change is starting to close. This term signifies the crucial timeframe during which effective climate policies and actions must be implemented to mitigate the impacts of climate change.

Incorrect Options:

- (a) This option misinterprets the term. The "window of opportunity" refers to a limited time for action, not a period when consequences are reversible.
- (c) While uncertainty is a factor in climate predictions, the term "window of opportunity" specifically refers to the timing of policy implementation.
- (d) This option is not supported by the passage. The term does not refer to shifts in global climate patterns.
- (e) While historical context is important, the primary focus of the term is on the urgency of timely action, not the historical awareness of climate change.

**S43. Ans. (e)**

**Sol.** A detailed analysis of the options given by the question is given below.

**ANALYSIS**

Valid Option: Option (e)

The correct answer accurately reflects the evolution of the scientific perspective on climate change consequences as described in the passage. The passage mentions that the science around four degrees of warming has been moving in the direction of greater pessimism, indicating that the understanding of potential effects has evolved over time, sometimes erring on the side of exaggeration and at other times moderating projections.

Incorrect Options:

- (a) The passage does not suggest a shift from pessimism to optimism; instead, it highlights increasing concerns about catastrophic consequences.
- (b) While catastrophic consequences are consistently projected, the passage indicates that the perspective has not remained entirely consistent over time.
- (c) The passage does not discuss alignment with political discourse; rather, it focuses on the scientific understanding of potential risks.
- (d) The passage does not explicitly mention a transition from uncertainty to greater certainty. Instead, it suggests ongoing refinement of understanding.

**S44. Ans. (c)**

**Sol.** A detailed analysis of the options given by the question is given below.

**ANALYSIS**

Valid Option: (c)

The correct answer accurately identifies a key psychological factor discussed in the passage. The passage suggests that humans have a tendency to avoid negative information, which contributes to the collective ignorance or lack of action regarding climate change. Refer to the part of the first paragraph to corroborate the fact, "George Marshall's intriguing book, Don't Even Think about It, offers many answers, but the likely consequences of twenty years of top-level lies, dithering and obfuscation are left until the last chapter. This was probably a smart decision, because the news is all bad." Thus, option (c) is the correct answer.

Incorrect Options:

- (a) Exaggeration and sensationalism by media outlets are not discussed in the passage as contributing to collective ignorance.
- (b) While scepticism may play a role, the passage does not attribute collective ignorance solely to the inherent scepticism of scientists.
- (d) Inaccurate predictions by climate models are not explicitly mentioned as a psychological factor contributing to collective ignorance.
- (e) Disregard for the scientific consensus is not explicitly discussed as a psychological factor in the passage.

**S45. Ans. (a)**

**Sol.** A detailed analysis of the options given by the question is given below.

**ANALYSIS**

Valid Option: Option (a)

The correct answer accurately describes the role of "global paralysis" as discussed in the passage. The term refers to the lack of effective international cooperation and action on climate policies, which contributes to the exacerbation of the climate change crisis.

Incorrect Options:

- (b) While uncertainty in predictions is mentioned, "global paralysis" is not directly tied to the inability of scientists to predict climate impacts.
- (c) While immediate action is emphasized, the passage does not explicitly attribute the crisis to a lack of action; instead, it focuses on the lack of cooperation.
- (d) The passage does not suggest a deliberate attempt to downplay climate change effects.
- (e) While political leadership is important, the focus of "global paralysis" is on cooperation rather than leadership.

**S46. Ans. (c)**

**Sol.**  $490 + 294 - 121 = ?$

$? = 663$

**S47. Ans. (d)**

**Sol.**  $3 - 420 + 576 = ?$

$? = 159$

**S48. Ans. (e)**

**Sol.**  $841 - 2197 + ? = 1116$

$? = 2472$

**S49. Ans. (c)**

**Sol.**

$\frac{2^2}{100} \times 500 + 36 = 196$

$\frac{2^2}{100} \times 500 = 160$

$2^2 = 32$

$2^? = (2)^5$

$? = 5$

**S50. Ans. (d)**

Let age of P & Q four years hence will be  $3x$  and  $5x$  respectively

Six-year later age of P =  $(3x + 2)$  years

Age of R after six years =  $(5x - 4) \times \frac{5}{6} + 6$

ATQ -

$(3x + 2) + (5x - 4) \times \frac{5}{6} + 6 = 62$

$x = 8$  years

Required sum =  $(3x - 4) + (5x - 4) = 20 + 36 = 56$  years

**S51. Ans. (b)**

**Sol.**

A complete the work in 15 days

B complete the work =  $\frac{140}{100} \times 15 = 21 \text{ days}$

Total work = 105 units (LCM of 15 and 21)

Efficiency of A =  $\frac{105}{15} = 7 \text{ unit/day}$

Efficiency of B =  $\frac{105}{21} = 5 \text{ unit/day}$

Req. days =  $\frac{105 \times \frac{60}{100}}{7+5} = 5.25 \text{ days}$

**S52. Ans. (d)**

**Sol.**

Let the speed of stream be  $y \text{ km/h}$

ATQ,

$$(13+y) - (13-y) = 10$$

$$2y = 10$$

$$y = 5$$

$$\text{Required time} = \frac{80}{13-5} = 10 \text{ hr}$$

**S53. Ans. (a)**

**Sol.**

Let radius to circle, length of rectangle and side of square be  $7x$ ,  $6x$  and  $3x$  respectively.

$$\text{Breadth of rectangle} = \frac{6x}{3} \times 1 = 2x$$

ATQ

$$2 \times \frac{22}{7} \times 7x + 2 \times (6x + 2x) + 4 \times 3x = 216$$

$$44x + 16x + 12x = 216$$

$$72x = 216$$

$$x = 3$$

$$\text{Length of rectangle} = 6x = 18 \text{ cm}$$

**S54. Ans. (e)**

**Sol.**

$$\text{CI-SI} = \frac{PR^2}{100 \times 100}$$

$$\frac{8000 \times R^2}{100 \times 100} = 80$$

$$R^2 = 100$$

$$R = 10$$



**S55. Ans. (e)**

**Sol.**

Let length of train A and train B is  $l$  and  $n$  meter respectively.

When train running in same direction,

$$\frac{l+n}{(90-72) \times \frac{5}{18}} = 80$$

$$l + n = 400 \dots\dots (i)$$

$$l - n = 100 \dots\dots(ii)$$

By solving (i) and (ii)

$$l = 250 \text{ meter and } n = 150 \text{ meters}$$

**S56. Ans. (d)**

**Sol.**

Let investment of C = Rs. X

ATQ –

$$\frac{X \times 6}{(55000 \times 12 + 40000 \times 12)} = \frac{10000}{38000}$$

$$X = \text{Rs.}50000$$

**S57. Ans. (c)**

**Sol.** In MS-Excel, formulas and expressions begin with the = symbol to indicate that an evaluation or calculation should be performed.

**Important Key Points:**

1. Equal Sign (=): The = sign is used to let Excel know that you are entering a formula or an expression, which should be evaluated.
2. Arithmetic Symbols: Symbols like \* (multiplication) and / (division) are used within formulas, but they do not initiate a formula.

**Knowledge Booster:**

- Formulas in Excel: Every formula in Excel starts with an = sign, followed by functions or arithmetic operations (e.g., =SUM(A1:A5)).
- Operators in Excel:
  - i. + for addition
  - ii. - for subtraction
  - iii. \* for multiplication
  - iv. / for division

**S58. Ans. (b)**

**Sol.** A **Wide Area Network (WAN)** is a type of network that covers large geographical areas, often connecting multiple smaller networks like LANs (Local Area Networks). The internet is the most notable example of a WAN.

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**Important Key Points:**

1. WANs are used for interconnecting offices, cities, or even countries.
2. Technologies like MPLS, leased lines, and satellite links enable WAN connectivity.
3. They operate on the network layer of the OSI model.

**Knowledge Booster:**

- Metropolitan Area Network (MAN): Covers a city or campus, smaller than a WAN.
- Storage Area Network (SAN): Dedicated to providing block-level storage to servers.
- Personal Area Network (PAN): Connects devices within a small range, such as Bluetooth.

**S59. Ans. (d)**

**Sol.** DNS (Domain Name System) is a system that translates human-readable domain names (like www.example.com) into IP addresses, allowing browsers to locate and load websites. DNS acts as the internet's address book.

**Important Key Points:**

1. IP Translation: Converts domain names to IP addresses for easy access.
2. Internet Navigation: DNS simplifies accessing websites by using domain names instead of numerical IP addresses.
3. Hierarchical Structure: DNS operates in a hierarchical format, making it efficient for large-scale use.

**Knowledge Booster:**

- Domain Name Security: Not a standard term; DNS does include security protocols, but the term is inaccurate.
- Domain Number System: Incorrect, as DNS focuses on name resolution, not number systems.
- Document Name System: Irrelevant to the domain name and IP address conversion function of DNS.

**S60. Ans. (b)**

**Sol.** A Hard Disk Drive (HDD) uses magnetic disks to store data. It relies on spinning magnetic platters to read and write data and is commonly used for mass storage in computers.

**Important Key Points**

1. Solid-State Drive (SSD) uses flash memory instead of magnetic disks.
2. Flash Drives are portable and use flash memory for data storage.
3. Optical Discs use laser technology to read and write data, not magnetic disks.

**Knowledge Booster**

- Magnetic Storage: HDDs store data magnetically, making them slower than SSDs but still useful for large, affordable storage.