

## Karnataka Bank PO 2023 Memory Based Paper

**Directions (1-10):** Read the given passage carefully and answer the following questions. Certain parts have been highlighted to help answer the questions.

Greater investment in care services can create an additional 300 million jobs globally, many of which will be for women. In turn this will help increase female labour force participation and advance Sustainable Development Goal (SDG) 8 (which is to 'promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all').

Every year, March 8 is celebrated as International Women's Day. The immense contribution of women to all spheres of life is often overlooked, unfairly valued, and hardly rewarded. This is 'particularly evident in care work — both paid and unpaid, which is crucial to the future of decent work. Care work encompasses direct activities such as feeding a baby or nursing an ill partner, and indirect care activities such as cooking and cleaning'. Whether paid or unpaid, direct or indirect, care work is vital for human well-being and economies. Unpaid care work is linked to labour market inequalities, yet it has yet to receive adequate attention in policy formulation. Paid care workers, such as domestic workers and anganwadis in India, also struggle to access rights and entitlements as workers.

The importance of care work is now widely **acknowledged** and covered in various international commitments such as the SDGs and the International Labour Organization (ILO)'s Centenary Declaration. Since March 2020, the demand for care services has skyrocketed. However, the investment in the care economy has not matched the pace. This year, to \_\_\_\_\_ International Women's Day, the ILO brought out its new report titled, 'Care at work: Investing in care leave and services for a more gender-equal world of work'. The ILO is the only tripartite UN agency, which brings together governments, employers, and workers of 187 member States, sets labour standards, develops policies and devises programmes promoting decent work for all women and men.

The report highlights the importance of maternity, paternity, and special care leave, which help balance women's and men's work and family responsibilities throughout their lives. Furthermore, it demonstrates that workplaces that provide time, income security and space for undertaking care services such as breastfeeding, enable positive nutrition and health outcomes. Bridging the gaps in current policies and service provisions to **nurture** childcare and elderly care services will deliver the benefits of child development, aging in dignity and independent living as the population grows older and also generate more and better employment opportunities, especially for women.

**Q1.** What is/are the advantage(s) of investment in care services?

- (a) Investment in care services will boost female labour participation
- (b) This investment will forge ahead the Sustainable Development Goal 8.
- (c) This will create huge opportunities of employment throughout the world.
- (d) All of these
- (e) None of these

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**Q2.** According to the passage, why care work's role is crucial?

- (a) It involves activities that are instrumental in improving the productivity of economies
- (b) Care work is vital to attain the future of standard work
- (c) Care work provides direct and indirect support essential for daily human welfare
- (d) Both (b) and (c)
- (e) Both (a) and (b)

**Q3.** What is/are the struggle(s) of paid care workers?

- (a) Paid workers are struggling to raise their minimum wage per day
- (b) They face difficulty in finding steady source of living and hence seeking guaranteed employment.
- (c) They are asking the government to set up a committee to protect their wellbeing and rights
- (d) Care workers who are getting paid are grappling to get access of the due rights and prerogatives as workers
- (e) All of these

**Q4.** International Labour Organizations has released its report named.....

- (a) Importance of Care Worker: A world promoting direct and indirect involvement of care workers
- (b) Care at work: Investing in care leave and services for a more gender-equal world of work
- (c) Recognition to contribution: An underestimated support of every care worker that should be valued and appreciated
- (d) Violation of equality: A world with equal participation of both genders but grappling with disparity
- (e) None of these

**Q5.** What is/are the obligation(s) of ILO?

- (a) ILO conceives programmes advancing fair work for all male and female
- (b) It establishes labour standards and formulate policies
- (c) It convenes governments, and employers, and workers of all member states
- (d) None of these
- (e) All (a), (b) and (c)

**Q6.** Which of the following is/are the highlight(s) of the report by ILO?

- (i) Importance of allocating space in offices for care services such as breastfeeding
  - (ii) Embracing the work culture that acknowledges employees' family and work responsibility.
  - (iii) Importance of establishment of a workplace that grants income security and balanced life to the employees
- (a) only (i)
  - (b) Both (i) and (ii)
  - (c) Only (iii)
  - (d) Both (ii) and (iii)
  - (e) All (i), (ii), (iii)

**Q7.** Which of the following is/are NOT TRUE as per the information given in the passage?

- (i) Demand for care services has decreased since March 2020.
  - (ii) Every year women's day is celebrated on the second Saturday of March.
  - (iii) Contribution of women in all sectors is often disregarded and not appreciated.
- (a) Both (ii) & (iii)
  - (b) Only (i)
  - (c) Only (ii)
  - (d) Both (i) & (ii)
  - (e) None of these

**Q8.** Which of the following can be used to fill the blank given in the passage in order to make a grammatically correct and contextually meaningful sentence?

- (a) cessation
- (b) commemorate
- (c) resurrect
- (d) bode
- (e) None of these

**Q9.** Which of the following is the similar in meaning of '**Nurture**' given in bold in the paragraph?

- (a) fray
- (b) gamut
- (c) foster
- (d) annex
- (e) None of these

**Q10.** Which of the following is the opposite in meaning of '**Acknowledged**' given in bold in the paragraph?

- (a) attribute
- (b) flotsam
- (c) tilt
- (d) lacuna
- (e) None of these

**Directions (11-16):** Each sentence is divided into four parts, in which one of the parts may have an error. Choose the incorrect part as the answer. If the sentence does not have any error, then choose "No Error" as the answer.

**Q11.** The ostensible reason of this tectonic shift (A)/was to curb the scourge of "departmentalism" (B)/ that was seen to hamper optimum decision (C)/ making and the smooth working of the Railways (D).

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

**Q12. If every country starts taking the law (A)/into their own hands, the legitimacy of a rule-based (B) /international order, which is already (C)/at a low ebb, will come crashing down (D).**

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

**Q13. Never before has the expert body (A)/ been completely sidestepped to clear a vaccine (B)/ for the immunization Programme, (C)/ and by doing so, it has set an unhealthy precedent (D).**

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

**Q14. It is perplexing that Covaxin, which has been used for (A)/ immunizing adults and adolescents between 15 and 18 years (B)/and which safety profile is now known, has been (C)/excluded for children in the 12-14 age group (D).**

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

**Q15. The apex court said the government had to file (A)/ an affidavit specifying reasons for claiming (B)/the “privilege” if it did not want to give (C)/copies of the restrictive orders to the petitioners (D).**

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

**Q16. Major telecom corporations are preparing (A)/ to reduce operations on their facilities (B)/ in Asian nations due to strict (C) regulations on research collaborations. (D)**

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

**Directions (17-23):** In each question two words are omitted. Choose the set of words from the given options that can fit the given blanks appropriately without altering the meaning of the sentence.

**Q17.** With Russia's military appearing to make little \_\_\_\_\_ in capturing key targets, fears are growing that Mr. Putin may \_\_\_\_\_ to even more drastic means to turn the tide.

- (a) passage, resonate
- (b) headway, resort
- (c) influx, resonate
- (d) passage, retract
- (e) None of these

**Q18.** Opposition members \_\_\_\_\_ that the Bill was beyond the legislative competence of Parliament as it \_\_\_\_\_ fundamental rights of citizens, including the right to privacy.

- (a) argued, violated
- (b) planned, allowed
- (c) perpetuated, nullify
- (d) proposed, terminate
- (e) None of these

**Q19.** A deep-tech healthcare start-up \_\_\_\_\_ at IIT Delhi, said it had developed an affordable medical textile called Fabium, which \_\_\_\_\_ 99.9% of the bacteria and viruses within 30 minutes.

- (a) incubated, destroys
- (b) formulated, facilitate
- (c) origin, kills
- (d) postulated, destroys
- (e) None of these

**Q20.** Prime Minister Imran Khan showed on Sunday that the passionate base of his Pakistan Tehreek-e-Insaf (PTI) remained \_\_\_\_\_ when tens of thousands of people \_\_\_\_\_ at Islamabad's Parade Ground to attend his rally.

- (a) jabbered, gave up
- (b) foreseen, appeared
- (c) enclosed, showed
- (d) intact, turned up
- (e) None of these



**Q21. There is a need for greater scientific \_\_\_\_\_ on the impact of climate change in general and on fisheries in \_\_\_\_\_.**

- (a) remedy, particular
- (b) method, general
- (c) research, particular
- (d) study, residual
- (e) None of these

**Q22. To ensure the efficient \_\_\_\_\_ of cutting-edge medical care to citizens, Tamil Nadu has been working to \_\_\_\_\_ medical colleges in each district.**

- (a) alleviation, affront
- (b) stipulation, institute
- (c) mitigation, reproach
- (d) diminution, invigorate
- (e) humiliation, construct

**Q23. The collegium of the Supreme Court has been busy recently as a lot of \_\_\_\_\_ that were lingering in high courts have been \_\_\_\_\_ on its advice.**

- (a) pacts, provoked
- (b) dissensions, evoked
- (c) disputes, addressed
- (d) accords, induced
- (e) velitations, greeted

**Directions (24-31): In the following passage there are blanks, each of which has been denoted by letters. For each blank, five options are given. Choose the most appropriate word from the options that fits the blank appropriately.**

One of the signs of India's growing centrality in the Indo-Pacific strategic architecture is its \_\_\_\_\_ **(A)** \_\_\_\_\_ engagement with key western nations. Even countries that have been lackadaisical in their regional outreach so far have begun to \_\_\_\_\_ **(B)** \_\_\_\_\_ the Indo-Pacific with a new seriousness and have been reaching out to New Delhi. The growth of India's weight in Indo-Pacific affairs comes at a time when it is becoming clearer that complex regional geopolitical problems cannot be \_\_\_\_\_ **(C)** \_\_\_\_\_ adequately by rigid and structured traditional alliance frameworks. This aspect is even more \_\_\_\_\_ **(D)** \_\_\_\_\_ in the context of the Indo-Pacific, where the geographical vastness of the area and the criticality of the challenges posed by China's assertive initiatives clash with a region lacking multilateral organizations \_\_\_\_\_ **(E)** \_\_\_\_\_ of solving problems effectively.

But as a new pushback against China takes shape and as Indian foreign policy becomes strategically clearer, there is new \_\_\_\_\_ **(F)** \_\_\_\_\_ to initiatives such as the Quad. Countries that share similar values and face similar challenges are coming together to create purpose-oriented partnerships. In doing so, they are making it possible for participating nations to address specific common \_\_\_\_\_ **(G)** \_\_\_\_\_, from maritime security to a coordinated pandemic response, including consolidating and further developing strong reciprocal trade relationships, without \_\_\_\_\_ **(H)** \_\_\_\_\_ the political autonomy of each participant.

**Q24. Which of the following words will fit in the given blank (A)?**

- (a) withering
- (b) burgeoning
- (c) dwindling
- (d) abridging
- (e) shrinking

**Q25. Which of the following words will fit in the given blank (B)?**

- (a) repudiate
- (b) preclude
- (c) banish
- (d) embrace
- (e) expunge

**Q26. Which of the following words will fit in the given blank (C)?**

- (a) persisted
- (b) entreated
- (c) tackled
- (d) endured
- (e) insisted

**Q27. Which of the following words will fit in the given blank (D)?**

- (a) amorphous
- (b) obscure
- (c) oracular
- (d) abstruse
- (e) apparent

**Q28. Which of the following words will fit in the given blank (E)?**

- (a) crude
- (b) adept
- (c) onerous
- (d) arduous
- (e) clumsy

**Q29. Which of the following words will fit in the given blank (F)?**

- (a) frailty
- (b) despise
- (c) impetus
- (d) aversion
- (e) debility



**Q30. Which of the following words will fit in the given blank (G)?**

- (a) accords
- (b) rapports
- (c) wrangles
- (d) ententes
- (e) assents

**Q31. Which of the following words will fit in the given blank (H)?**

- (a) vivifying
- (b) perking
- (c) mending
- (d) vitiating
- (e) enriching

**Directions (32-37): In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should interchange with each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other.**

**Q32.** It is mandated to make available all **necessary** (A) facilities and equipment to facilitate the recording of **communication**, (B) arguments or opinions given by persons with **disabilities** (C) in their preferred language and means of **testimonies** (D).

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Only (A)-(D) and (B)-(C)
- (d) Only (B)-(D)
- (e) No interchange needed

**Q33.** A challenge in **recruiting** (A) industry experts to teach is that **recommend** (B) insufficiently acknowledge them as valid teaching faculty and **regulations** (C) more full-time **academic** (D) staff to meet the faculty-student ratio.

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Only (A)-(D) and (B)-(C)
- (d) Only (B)-(D)
- (e) No interchange needed

**Q34.** The government also **sanctioned** (A) the production of **local** (B) beer and the **manufacturing** (C) of wine and 'low proof' liquor from local **produce** (D) except grains.

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Only (A)-(D) and (B)-(C)
- (d) Only (B)-(D)
- (e) No interchange needed

**Q35.** The MSME sector is a significant **contributor** (A) in terms of industrial output, **employment** (B) generation, and the share in **export** (C) domestic product and **gross** (D).

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Only (A)-(D) and (B)-(C)
- (d) Only (C)-(D)
- (e) No interchange needed

**Q36.** In order to make the MSME sector **mandatory** (A) we propose the **businesses** (B) of emergency funds for small **provisions** (C) that should be made **resilient** (D) from the beginning.

- (a) Only (A)-(C)
- (b) Only (B)-(C)
- (c) Only (A)-(D) and (B)-(C)
- (d) Only (C)-(D)
- (e) No interchange needed

**Directions (37-41):** Two columns are given with few sentences/phrases in each which are grammatically correct and meaningful. Connect them in the best possible way without changing the intended meaning. Choose the best possible combination as your answer accordingly from the options to form a correct, coherent sentence.

**Q37.**

Column (I)

- (A) While everyone will concur that the quality standards of
- (B) The Nepal Parliament has been dysfunctional after
- (C) Macro-economic miseries have all wrecked Sri Lanka's

Column (II)

- (D) cracks within the former Communist alliance developed
- (E) with shape of credible road map for economic recovery
- (F) plans for an economic recovery

- (a) Only (A)-(E) and (C)-(F)
- (b) Only (B)-(F)
- (c) Both (B)-(D) and (C)-(F)
- (d) Only (A)-(D)
- (e) None of these

**Q38.**

COLUMN (I)

- (A) The adoption of the Charter at BIMSTEC summit promises to re-energise
- (B) One ought not to forget that there are possibilities of further variants
- (C) Canberra is keen on bolstering its ties with India was very clear when

COLUMN (II)

- (D) at their seams and COVID-19 protocols are hardly observed.
  - (E) it ceremoniously returned 29 antiquities to India.
  - (F) the 25-year-old grouping at a time of growing global uncertainties.
- (a) Only (A)-(F) and (C)-(E)
  - (b) Only (B)-(F)
  - (c) Both (A)-(F) and (B)-(E)
  - (d) Only (C)-(F)
  - (e) None of these

**Q39.**

COLUMN (I)

- (A) The trial of strength is best tested this way instead of having
- (B) Official industrial data shows output in the eight core sectors
- (C) The RBI's Monetary Policy Committee has its work cut out in a

COLUMN (II)

- (D) other senior citizens who have received such strange messages
  - (E) recovery from the onslaught of the COVID-19 pandemic
  - (F) grew at the fastest pace in four months
- (a) Only (A)-(E) and (C)-(F)
  - (b) Only (B)-(F)
  - (c) Both (A)-(F) and (B)-(D)
  - (d) Only (A)-(D)
  - (e) None of these

**Q40.**

COLUMN (I)

- (A) The Union Home Ministry has decided to reduce the number of
- (B) While this piecemeal gesture would be welcomed by the residents
- (C) Despite the vociferous protests from security forces for the retention of

COLUMN (II)

- (D) have been excluded from the disturbed area notification
  - (E) thus limiting its operation fully to only nine districts
  - (F) in effect circumscribing the conditions in which the immunity is applied
- (a) Only (A)-(E) and (C)-(F)
  - (b) Only (B)-(D) and (C)-(F)
  - (c) Both (A)-(F) and (B)-(E)
  - (d) Only (A)-(D)
  - (e) None of these

**Q41.**

COLUMN (I)

- (A) Groundwater helps reduce the risk of water shortage
- (B) Biological contamination has also been reported
- (C) The Russian invasion of Ukraine has led to

COLUMN (II)

- (D) a flurry of diplomatic activity in New Delhi
- (E) and caters to the needs of arid regions
- (F) from different parts of the country
- (a) Only (A)-(E) and (C)-(F)
- (b) Only (B)-(F), (A)-(E) and (C)-(D)
- (c) Both (A)-(F), (B)-(E) and (C)-(D)
- (d) Only (A)-(D)
- (e) None of these

**Directions (42-48): In the following question, sentences are given with a part in bold. The given phrase in the bold may or may not contain an error. The options following can replace the incorrect phrase. The correct phrase that is to be replaced will be your answer. If the sentences are correct then select 'No improvement required' as your answer.**

**Q42.** Every election is guided by a 'hawa' (a wave), and after so many elections, the **Army have become adept at manipulating** the 'hawa'.

- (a) the Army has become adept at manipulating
- (b) the Army has become adept at manipulating
- (c) the Army has become adept in manipulating
- (d) the Army has become adept at manipulation
- (e) No improvement required

**Q43.** The CJJ observed that the temple draws funds from the Consolidated Fund, is a "public place of worship" and that **there is "no concept of private mandirs"**.

- (a) there is "no concept of private mandir".
- (b) there is "no concept for private mandirs".
- (c) there are "no concept of private mandirs".
- (d) there is "any concept of private mandirs".
- (e) No improvement required

**Q44.** The day Alexander Frater was born, in a small mission hospital on an island in the South-West Pacific, **"2.1 inches of rain fell on space of** seven hours and 12 minutes," knocking flowers off trees and washing away topsoil.

- (a) 2.1 inches of rain fell in an space of
- (b) 2.1 inches of rain fell in the space off
- (c) 2.1 inches of rain fell in a space
- (d) 2.1 inches of rain fell in a space of
- (e) No improvement required

**Q45.** The intensity of competition **has steadily increase** since the entry of Reliance Jio, founded by the deep-pocketed billionaire Mukesh Ambani.

- (a) has steadily increasing
- (b) have steadily increased
- (c) has steady increase
- (d) has steadily increased
- (e) No improvement required

**Q46. The value of the Scholarship for** the Intermediate Course is Rs.7 and for B.A. Pass and Honours Courses Rs.10 per mensem.

- (a) The value of the Scholarship of
- (b) The value of the Scholarship to
- (c) The value for the Scholarship for
- (d) The value off a Scholarship of
- (e) No improvement required

**Q47.**The chances of opening the Idukki dam **are receding with a considerable** fall in inflow into the reservoir.

- (a) are receding to a considerable
- (b) are receding with considerable
- (c) are receding with a considerably
- (d) are receding into a considerable
- (e) No improvement required

**Q48.** The statement came after she **holding day-long parleys with leaders** of 10 Opposition parties in New Delhi. Ms. Banerjee met all leaders expected to play a key role in the Lok Sabha polls

- (a) held day-long parley with leaders
- (b) held day-long parleys with leaders
- (c) held day-longs parleys with leaders
- (d) held days-long parleys with leaders
- (e) No improvement required

**Directions (49-50):** In the questions given below two sentences are given which are grammatically correct and meaningful. Connect them by the word given below the statements in the best possible way without changing the intended meaning. Choose your answer accordingly from the options which form a correct, coherent sentence.

**Q49.**

- (I) The temperature edged past 40°C last year  
(II) Schools in some States decided to extend their summer vacations by a week or two.
- (a) As  
(b) If  
(c) lest  
(d) Moreover  
(e) Nevertheless

**Q50.**

- (I) Ajinkya Rahane is a very popular cricketer.  
(II) He has never won any ICC award.
- (a) Not only....But also  
(b) However  
(c) Even Though  
(d) Because  
(e) As

**Directions (51-54): Study the following information carefully and answer the questions given below.**

Eleven persons sit around a circular table such that all of them face towards the centre of the table. N sits second to the right of P. Two persons sit between N and Q. The number of persons sit between P and Q when counts from the left of P is same as the number of persons sit between N and S when counts from the right of N. Three persons sit between S and W who doesn't sit adjacent to P. U sits third to the right of T who is an immediate neighbour of W. As many persons sit between S and R as between R and V. O sits next to S but not adjacent to U. M is one of the persons.

**Q51. How many persons sit between R and Q when counted from the left of Q?**

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

**Q52. Which among the following statement(s) is/are not true?**

- (a) S sits third to the right of Q  
(b) No one sits between T and N when counts from the left of T  
(c) Even number of persons sits between P and U when counts from the left of U  
(d) V sits adjacent to the one who sits second to the left of N  
(e) All are true

**Q53. If all the persons sit in alphabetical order starting from M in anti-clockwise direction, then the position of how many persons remains unchanged in their positions (Excluding M)?**

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

**Q54. Four of the following five are alike in a certain way and hence form a group. Who among the following doesn't belong to that group?**

- (a) W,T
- (b) S,M
- (c) N,V
- (d) U,M
- (e) P,W

**Directions (55-56): In the following questions, the symbols @, &, %, \$ and \* are used with the following meaning as illustrated below-**

'P&Q' means 'P is greater than or equal to Q'

'P\*Q' means 'P is equal to or smaller than Q'

'P\$Q' means 'P is equal to Q'

'P%Q' means 'P is smaller than Q'

'P@Q' means 'P is greater than Q'

Now in each of the following questions, assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true and give your answer accordingly.

**Q55. Statements:** Q \* W & E @ R; U & Y @ T \$ W & X

**Conclusions:** I. X \* R                      II. Q % U

- (a) Neither I nor II is true
- (b) Only I is true
- (c) Only II is true
- (d) Either I or II is true
- (e) Both I and II are true

**Q56. Statements:** L % S \* D % F @ G; C & F \$ J \* K

**Conclusions:** I. S % C                      II. G \* K

- (a) Neither I nor II is true
- (b) Only I is true
- (c) Only II is true
- (d) Either I or II is true
- (e) Both I and II are true



**Q57. Statements:** The government will soon notify amendments to the Information Technology Act that seek to make it mandatory for online platforms such as WhatsApp, Facebook and Twitter to trace the originator of “unlawful” content.

**Conclusions:**

I. Government wants to seize the privacy of online platforms like WhatsApp, Facebook and Twitter.

II. IT Act proposed with an aim to curb the spread of fake news and removal of “unlawful content”.

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

**Directions (58-62): Study the following information carefully to answer the given questions:**

Seven persons- A, B, C, D, E, F and G live on a seven floor building such that the bottom most floor is numbered as 1, floor just above it is numbered as 2 and so on till the topmost floor is numbered as 7. Each of them likes different colours- Red, Blue, Black, Pink, Green, Yellow and White. All the information is not necessarily in the same order.

Four persons live between B and the one who likes red. B lives above the one who likes red. The number of persons live above the one who likes red is same as the persons live below the one who likes green. A lives two floors below the one who likes green. G lives just above the one who likes yellow on an even numbered floor. One person lives between G and the one who likes pink. G doesn't like green. The number of persons lives between A and B is same as between A and E. F lives above C but below D. The one who likes blue lives below F. F doesn't like white.

**Q58. Who among the following lives on 5<sup>th</sup> floor?**

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

**Q59. Which among the following statement(s) is/are true?**

- (a) F lives below C
- (b) The one who likes green colour lives on odd numbered floor
- (c) No one lives below E
- (d) E doesn't like yellow colour
- (e) All are true

**Q60. How many persons live between B and G?**

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

**Q61. If all the persons live in alphabetical order from bottom to top then the position of how many persons remains unchanged?**

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

**Q62. Who among the following likes black colour?**

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

**Directions (63-65):** In each of the questions below are given some statements followed by some 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.

**Q63. Statements:** Only a few rain is water

All water is sea

No sea is drops

**Conclusions: I.** Some rain is not drops

**II.** All sea being rain is a possibility

**Q64. Statements:** Only hot is cold

Some hot is summer

Only a few summer is winter

**Conclusions: I.** No cold is winter

**II.** All summer can be winter

**Q65. Statements:** All fruits are grapes

Only a few fruits is mango

No apple is mango

**Conclusions:** I. All grapes being mango is a possibility

II. Some fruits is not apple

**Q66. Below is given a statement, followed by two conclusions. You have to decide which of them can be concluded from the statement.**

**Statements:** The Supreme Court declined to entertain a student's petition, which alleged that some questions in this year's NEET exam were out of NCERT syllabus.

**Which of the following may be the reason of declined of petition by the court?**

I. The NEET exam's expert committee had gone through the contentious questions in the NEET exam and found no ambiguity.

II. It is not possible to scrutinize all multiple-choice questions asked in NEET's exams by the court.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Either I or II follows

(d) Neither I nor II follows

(e) Both I and II follow

**Q67. If in the given number '8263528196', 1 is added to all even digits and 1 is subtracted from all odd digits and then arrange them in ascending order from left to right, then what will be the sum of all odd placed digits?**

(a) 21

(b) 23

(c) 20

(d) 24

(e) None of the above

**Directions (68-72): Study the following information carefully and answer the questions given below.**

Seven boxes are kept one above another such that the bottommost box is numbered as 1 and the box just above it is numbered as 2 and so on till the topmost box is numbered as 7.

Four boxes are kept between box U and box O. Two boxes are kept between box O and box P. Two boxes are kept between box U and box V which is kept just above box S. Box M is kept below box U but kept above box Q.

**Q68. Which of the following statement(s) is/are true?**

**I. Box M is numbered as 6.**

**II. One box is kept between box P and box V.**

**III. Box S is kept just above box Q.**

- (a) Only statement I is true
- (b) Only statement II is true
- (c) Both statements II and III are true
- (d) Both statements I and III are true
- (e) All Statements I, II and III are true

**Q69. Which box is kept just above box P?**

- (a) Box Q
- (b) Box U
- (c) Box M
- (d) Box S
- (e) Either box U or box S

**Q70. How many boxes are kept between Box M and Box Q?**

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

**Q71. Which of the following box is kept at the 3<sup>rd</sup> from bottommost position?**

- (a) Box O
- (b) Box Q
- (c) Box P
- (d) Box S
- (e) None of these

**Q72. Sum of the box number of box U and box S is \_\_\_\_.**

- (a) 10
- (b) 12
- (c) 14
- (d) 9
- (e) Can't be determined

**Q73. How many pairs of letters are there in the given word “STALWARTS”, each of which has as many letters between them as in the word as they have in English alphabetical series (both forward and backward direction)?**

- (a) Four
- (b) Three
- (c) Five
- (d) Two
- (e) More than five

**Q74. In a certain code, “HAPPY” is coded as “FCNRW” and “SHINE” is coded as “QJGPC”. What will be the code for the word “GLEAM”?**

- (a) HMFAN
- (b) ENCKK
- (c) HMFBN
- (d) INGCO
- (e) None of these

**Q75. Statement:** The local government has introduced free bus services in the downtown area to reduce traffic congestion and promote the use of public transportation among residents.

**Conclusions:**

- I. Traffic congestion in the downtown area will decrease.
- II. All residents will stop using personal vehicles for commuting in the downtown area.

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

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

**Directions (76-79): Study the following information carefully and answer the questions given below:**

Ten persons sit in two parallel rows such that five persons sit in each row. In row 1- A, B, C, D and E sit and face in south direction while in row 2 – J, K, L, M and N sit and face in north direction but not necessarily in the same order. The persons sit in row 1 face the persons sit in row 2 and vice versa.

A sits diagonally opposite to J. M sits opposite to the one who sits second to the left of D. Both D and M does not sit at the extreme end. One person sits between M and L. E sits second to the left of D. L is the only neighbor of K. C sits to the immediate left of E.

**Q76. Who sits second to the left of one who sits opposite to N?**

- (a) A
- (b) E
- (c) D
- (d) C
- (e) None of these

**Q77.** If A is related to L and D is related to N then in the same way \_\_ is related to M.

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

**Q78.** Four of the following five belong to a group in a certain way, which among the following does not belong to that group?

- (a) C-J
- (b) E-M
- (c) D-N
- (d) B-N
- (e) D-L

**Q79.** Who among the following person sits third to the right of one who sits opposite to N, if N interchange its position with M?

- (a) D
- (b) B
- (c) A
- (d) C
- (e) None of the above

**Q80. Statement:**

Mr. X is one of the probable candidates short-listed for the post of Director of K.L.M. Institute.

**Conclusion**

I. Mr. X will be selected as Director of K.L.M. Institute.

II. Mr. X will not be selected as Director of K.L.M. Institute.

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

**Directions (81-84):** Find the wrong number in the following number series.

**Q81.** 3036, 505, 100, 24, 7, 5, 1.5

- (a) 5
- (b) 24
- (c) 505
- (d) 3036
- (e) 100

**Q82.** 120120, 9240, 840, 125, 24, 8, 4

- (a) 8
- (b) 4
- (c) 120120
- (d) 125
- (e) 840.

**Q83.** 1050, 1026, 990, 942, 882, 812, 726

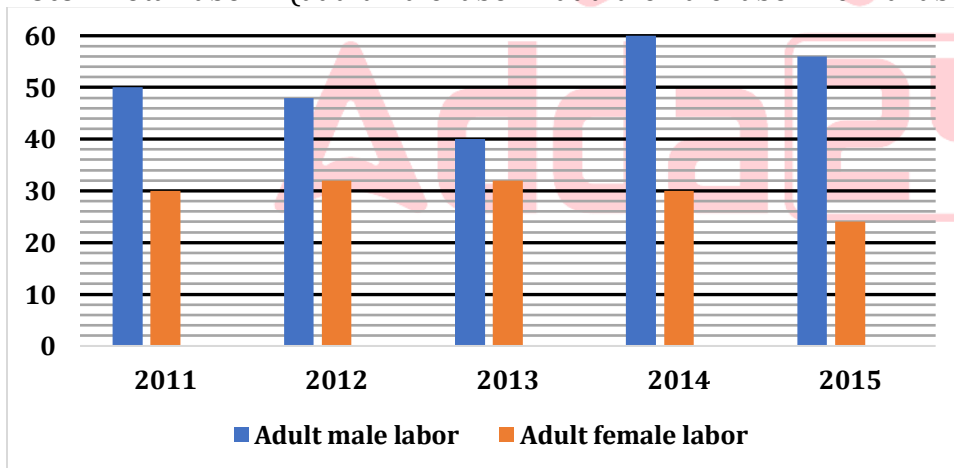
- (a) 1050
- (b) 812
- (c) 1026
- (d) 990
- (e) 726

**Q84.** 30, 16, 20, 39, 96, 260, 816

- (a) 30
- (b) 16
- (c) 816
- (d) 39
- (e) 96

**Direction (85 – 89):** Bar graph given below shows percentage of labor (adult male labor & adult female labor) out of total labor working in a firm 'X' in five different years. Read the data carefully answer the questions.

**Note –** Total labor = (adult male labor + adult female labor + child labor)



**Q85.** If ratio of girls' child labor to boy's child labor working in the year 2013 is 3 : 4 and their difference is 48, then find the difference between adult male labor and adult female labor working in that year?

- (a) 84
- (b) 96
- (c) 108
- (d) 88
- (e) 72



**Q86.** Total labor working in 2015 are 20% more than that of total labor working in 2011, then find total adult female labor working in 2015 is what percent more than total child labors working in 2011?

- (a) 42%
- (b) 48%
- (c) 40%
- (d) 36%
- (e) 44%

**Q87.** If ratio of adult male labors working in 2011 to 2012 is 5 : 4 and total labors working in these two years is 2200, then find total child labors working in these two years?

- (a) 420
- (b) 480
- (c) 440
- (d) 400
- (e) 520

**Q88.** A child NGO inspection team in 2014 in the city inspected firm X and imposed fine on firm of Rs. 25 for each child labor. If inspection team imposed total Rs. 2000 on the firm and total child labor working in 2015 are 220 more than that of in 2014, then find ratio of adult male labors working in 2014 and 2015 respectively?

- (a) 3 : 7
- (b) 4 : 9
- (c) 4 : 7
- (d) 4 : 5
- (e) 4 : 3

**Q89.** If ratio of total labors working in 2011, 2012 and 2013 is 8 : 10 : 5 and total adult female workers working in these three years is 720, then find total number of child labors working in these three years?

- (a) 550
- (b) 450
- (c) 400
- (d) 300
- (e) 500

**Directions (90–92):** In the given questions, two quantities are given one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

**Q90. Quantity I:** A train can cross a pole in 24 sec with a speed of 75 km/h. Length of train.

**Quantity II:** A train can cross a pole in 12 sec and a tunnel in 55.2 sec. If length of tunnel is 1800 m. length of train.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I  $\leq$  Quantity II

**Q91. Quantity I:** Marked price of article, if article is marked at 50% above cost price and on selling the article, profit earned is 20% and S. P. is Rs 1020.

**Quantity II:** Total cost of fencing a square of side 37.5 meter and cost of wire is Rs 0.17 per centimeter.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I  $\leq$  Quantity II

**Q92. Quantity I:** Amount obtained after two years on Rs. 2450 at  $14\frac{2}{7}\%$  simple interest per annum.

**Quantity II:** Amount obtained after two years on investment of Rs 2450 at  $12\frac{1}{2}\%$  p. a. compounded yearly.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I = Quantity II or no relation
- (e) Quantity I  $\leq$  Quantity II

**Directions (93 – 97):** The following table shows the total no. students and percentage of students present on a particular day out of them for two schools A and B in different classes.

Classes	School A	Student present (in %)	School B	Student present (in %)
VI	450	32%	—	44%
VII	260	45%	250	24%
VIII	—	38%	—	60%
IX	560	—	792	25%
X	220	35%	350	—

**Q93.** If total number of students in class VIII in both the school together are 1625, while total students present in both the classes together are 766, then find difference between number of students in class VIII in both the schools?

- (a) 250
- (b) 275
- (c) 225
- (d) 300
- (e) None of these

**Q94.** The number of students present in class VI in school A are approximately what percent of number of students present in class IX in school B?

- (a) 65%
- (b) 70%
- (c) 75%
- (d) 73%
- (e) 80%

**Q95.** If number of students present in class VI in school B are 2 less than double of the number of students present in same class in school A, then find the total number of students in class VI in school B.

- (a) 625
- (b) 650
- (c) 600
- (d) 700
- (e) None of these

**Q96.** If no. of students present in class XI in school B are  $14\frac{2}{7}\%$  less than number of students present in class X in the same school, while total students in class XI in school B is 400, then what percent of students in class XI in school B are present on that day?

- (a) 25.5%
- (b) 26.5%
- (c) 27.5%
- (d) data inadequate
- (e) None of these

**Q97.** Find the total number of students present in class VII in both the schools together?

- (a) 157
- (b) 187
- (c) 167
- (d) 177
- (e) None of these

**Direction (98 – 106):** In each of these questions, two equations (i) and (ii) are given. You have to solve both the equations and give answers.

- (a) if  $x > y$
- (b) if  $x \geq y$
- (c) if  $x = y$  or no relation can be established between  $x$  and  $y$ .
- (d) if  $y > x$
- (e) if  $y \geq x$

**Q98.** (i)  $2x^2 - 12x + 16 = 0$   
(ii)  $2y^2 - 20y + 48 = 0$

**Q99.** (i)  $x^2 - 3x - 40 = 0$   
(ii)  $y^2 + 11y + 30 = 0$

**Q100.** (i)  $2x^2 - x - 3 = 0$   
(ii)  $2y^2 - 6y + 4 = 0$

**Q101.** A man borrows Some money at the rate of 5% p.a. compounded annually and at the end of each year he pays back Rs. 400 and he pays Rs. 8400 at the end of the third year to clear all his debt, then find out borrowed money?

- (a) Rs. 7500
- (b) Rs. 8200
- (c) Rs. 8000
- (d) Rs. 7200
- (e) Rs. 7800

**Q102.** Two articles 'A' and 'B' are sold at 30% profit and 20% loss respectively. If article 'A' had been sold for Rs. 350 more, then overall profit % on both articles would be 38%, then find the cost price of Article B if cost price of Article A and B is in the ratio of 3:2 respectively?

- (a) Rs. 400
- (b) Rs.600
- (c) Rs.750
- (d) Rs.500
- (e) Rs.350

**Q103.** In mixture A, Milk and Water are in the ratio of 5:3 respectively and in another mixture B, milk and water are in ratio 2:5 respectively. In what proportion these two mixtures be mixed to form a new mixture that contains quantity of milk and water in ratio of 43:41 respectively if both mixture A and B are same in quantity?

- (a) 2:3
- (b) 3:2
- (c) 1:2
- (d) 2:5
- (e) 2:1

**Q104.** Raj and Rahul together can do a work in 'X' days while their efficiency is in the ratio of 3:2 respectively. Raj alone can complete 2 times more of the above work with half of his efficiency in 72 days, then find X?

- (a) 7.5 days
- (b) 7.2 days
- (c) 6.8 days
- (d) 6.4 days
- (e) 7.8 days

**Q105.** Present age of A and B are in the ratio of 5:4 respectively and 5 years after, ages of B and C are in ratio of 5:8 respectively, then find present age of B, if average of present ages of A and C is 30 years?

- (a) 20 years
- (b) 25 years
- (c) 28 years
- (d) 32 years
- (e) 24 years

**Q106.** Ravi, Veer and Avinash entered into a partnership by investing Rs.X-2000, Rs. X and Rs. X+3000 respectively and time duration of investment of Ravi, Veer and Avinash is in the ratio of 3:2:1 respectively. If Veer earns Rs. 720 as a profit out of total profit of Rs. 2070, then find amount invested by Avinash?

- (a) Rs.12000
- (b) Rs.15000
- (c) Rs.10000
- (d) Rs.12500
- (e) Rs.13000

**Q107.** A boat can row to a place 300 km away and come back to initial point in total  $(2T-2.5)$  hours. If the boat covers 60 km more in downstream than upstream in T hours and Speed of stream is 2 kmph, then find the time taken by boat to cover 180 km in upstream?

- (a) 8 hours
- (b) 10 hours
- (c) 7.5 hours
- (d) 9 hours
- (e) 12 hours

**Q108.** If Total surface area of Cylinder is  $535.5\pi$  cm<sup>2</sup> and height of a cylinder is 6 cm less than Diameter of Circular part of Cylinder, then find out 400% of volume of Cylinder?

- (a)  $6215\pi$  cm<sup>3</sup>
- (b)  $6615\pi$  cm<sup>3</sup>
- (c)  $5615\pi$  cm<sup>3</sup>
- (d)  $6415\pi$  cm<sup>3</sup>
- (e)  $4815\pi$  cm<sup>3</sup>

**Q109.** Population of a city increases at the rate of 12.5% every year but due to infection in the city the population decreases by 10% in last year. if present population of the city is 5832, then find out the population of city 3 years ago?

- (a) 5200
- (b) 5400
- (c) 5100
- (d) 5000
- (e) 5120

**Q110.** Two dice are thrown simultaneously, then find out the probability of getting sum which is divisible by 3?

- (a)  $\frac{1}{2}$
- (b)  $\frac{2}{5}$
- (c)  $\frac{1}{3}$
- (d)  $\frac{2}{3}$
- (e)  $\frac{1}{4}$

**Q111.** A train 'P' running at the speed of 72 km/hr crosses a platform which is half of its length in one minute. Find the time in which train 'P' crosses another train 'Q' whose length is two times of train 'P' and running at the speed of 108 km/hr in opposite direction?

- (a) 48 sec.
- (b) 54 sec.
- (c) 60 sec.
- (d) 64 sec.
- (e) 40 sec.

**Q112.** Monthly saving of Veer is 60% of his monthly expense. If his monthly expense increased by 60% and his monthly income increased by 25%, so his monthly saving decreased by Rs. 7000. Find the initial monthly income of Veer.

- (a) 56000 Rs.
- (b) 49000 Rs.
- (c) 48000 Rs.
- (d) 72000 Rs.
- (e) 64000 Rs.

**Directions (113-117):** Study the passage given below and answer the following questions.

Data given below gives information about number of tables manufactured by 4 different manufacturers (A, B, C & D) in 2017 & 2018. Total tables manufactured in 2017 & 2018 are 34000 & 38000 respectively.

**In 2017** – Tables manufactured by A are 60% more than tables manufactured by B and ratio of tables manufactured by C to D is 4 : 3. A manufactured 1000 tables less than by D.

**In 2018** – Ratio of tables manufactured by A to D is 2 : 3 and average of tables manufactured by B & C are 6500.

Tables manufactured by B in 2018 are 50% of that of manufactured by A in 2017.

**Q113.** Tables manufactured by C & D together in 2018 are what percent more or less than tables manufactured by A & C together in 2017?

- (a) 30%
- (b) 35%
- (c) 40%
- (d) 15%
- (e) 20%

**Q114.** Find ratio of tables manufactured by B in 2017 & 2018 together to tables manufactured by D in 2017 & 2018 together.

- (a) 3 : 8
- (b) 4 : 7
- (c) 1 : 2
- (d) 5 : 12
- (e) 7 : 9

**Q115.** Average of tables manufactured by A & C in 2018 is how much more or less than average of tables manufactured by B & D in 2017?

- (a) 3500
- (b) 5500
- (c) 2500
- (d) 1500
- (e) 4500

**Q116.** Tables manufactured by C in 2017 & 2018 together are approximately what percent of tables manufactured by A in 2017 & 2018 together?

- (a) 86%
- (b) 117%
- (c) 108%
- (d) 111%
- (e) 95%



**Q117.** Tables manufactured by A, B & C together in 2017 are how much more or less than tables manufactured by C & D together in 2018?

- (a) 1800
- (b) 1000
- (c) 2500
- (d) 3400
- (e) 4100

**Q118.** The average of three different numbers is 60. If the average of the first and third numbers is 54 and the average of the second and third numbers is 66, then find three times the third number?

- (a) 208
- (b) 196
- (c) 172
- (d) 180
- (e) 162

**Q119.** Anurag can cover a km in 10 minutes and Dharam can cover a km in 15 minutes. If they both participated in a race and Anurag defeated Dharam by 200m, then find the length of race.

- (a) 500m
- (b) 600m
- (c) 800m
- (d) 400m
- (e) 300m

**Q120.** Two pipes P and Q can fill an empty tank in 12 hours and 36 hours, respectively. A third pipe R can empty the same tank in 24 hours. If all three pipes are opened simultaneously, how many hours will it take to fill the tank completely?

- (a) 14.4 hours
- (b) 18.2 hours
- (c) 15.1 hours
- (d) 20.4 hours
- (e) 24.9 hours

## Solutions

**S1. Ans. (d)**

**Sol.** The correct choice is option (d) which can be inferred from the first paragraph which mentions, "Greater investment in care services can create an additional 300 million jobs globally, many of which will be for women. In turn this will help increase female labour force participation and advance Sustainable Development Goal (SDG) 8"

**S2. Ans. (d)**

**Sol.** The correct choice is option (d) which can be inferred from the second paragraph which mentions, "This is 'particularly evident in care work — both paid and unpaid, which is crucial to the future of decent work. Care work encompasses direct activities such as feeding a baby or nursing an ill partner, and indirect care activities such as cooking and cleaning'. Whether paid or unpaid, direct or indirect, care work is vital for human well-being and economies."

**S3. Ans. (d)**

**Sol.** The correct choice is option (d) which can be inferred from the second paragraph which mentions, "Paid care workers, such as domestic workers and anganwadis in India, also struggle to access rights and entitlements as workers."

**S4. Ans. (b)**

**Sol.** To validate the answer refer to the third paragraph which mentions, "Care at work: Investing in care leave and services for a more gender-equal world of work'."

**S5. Ans. (e)**

**Sol.** To validate the answer refer to the third paragraph which mentions, "The ILO is the only tripartite UN agency, which brings together governments, employers, and workers of 187 member States, sets labour standards, develops policies and devises programmes promoting decent work for all women and men."

**S6. Ans. (e)**

**Sol.** To validate the answer refer to the last paragraph which mentions, "The report highlights the importance of maternity, paternity, and special care leave, which help balance women's and men's work and family responsibilities throughout their lives. Furthermore, it demonstrates that workplaces that provide time, income security and space for undertaking care services such as breastfeeding, enable positive nutrition and health outcomes."

**S7. Ans. (d)**

**Sol.** Both statement (i) & (ii) are incorrect.

For (i), refer to the second paragraph which mentions, " Since March 2020, the demand for care services has skyrocketed."

For (ii), refer to the second paragraph which mentions, " Every year, March 8 is celebrated as International Women's Day."

For (iii), refer to the second paragraph which mentions, " The immense contribution of women to all spheres of life is often overlooked, unfairly valued, and hardly rewarded."

**S8. Ans. (b)**

**Sol.** The correct word for the given blank is 'commemorate'

cessation means the fact or process of ending or being brought to an end.

commemorate means mark or celebrate (an event or person) by doing or producing something.

resurrect means restore (a dead person) to life.

bode means be a portent of a particular outcome.

**S9. Ans. (c)**

**Sol.** 'Foster' is a synonym of 'nurture'

Nurture means help or encourage the development of.

fray means unravel or become worn at the edge, typically through constant rubbing

gamut means the complete range or scope of something.

foster means encourage the development of (something, especially something desirable).

annex means add (territory) to one's own territory by appropriation.

**S10. Ans. (b)**

**Sol.** 'Acknowledged' is an antonym of 'flotsam'

acknowledged means accept or admit the existence or truth of.

attributed means regard something as being caused by.

flotsam means people or things that have been rejected or discarded as worthless.

tilt means a sloping position or movement.

lacuna means an unfilled space; a gap.

**S11. Ans. (a)**

**Sol.** In part A, "of" preposition must be replaced with "for". "for" is the standard preposition after "reason" whereas, "of" is unidiomatic. It should be "cause of" and "reason for".

Ex-A doctor can't operate if he doesn't know the **cause of** the illness.

A doctor can't operate if he doesn't know the **reason for** the illness.

**S12. Ans. (b)**

**Sol.** In part B, “their” must be replaced by “its” as, “each/every” is singular and must be followed with singular pronoun.

**S13. Ans. (e)**

**Sol.** The correct answer is:

**(e) No Error**

**Explanation:**

The sentence is grammatically correct. The subject “it” in the phrase “and by doing so, it has set an unhealthy precedent” appropriately refers back to “the expert body”, and the sentence is well-structured. There is no error in any part of the sentence.

**S14. Ans. (c)**

**Sol.** In part C, “which” must be replaced by “whose”. “Whose” defines some sort of ownership, but “which” by itself doesn’t. Though “Which” have many definitions, but not until it adds prepositions to define ownership (e.g. *of which*, *on which*). On its own, “which” is more of a questioning word that needs additional specification to determine exactly what you’re talking about.

**S15. Ans. (c)**

**Sol.** In part C, “wanted” must be replaced with “want” as the correct structure is “did/did not+ V1”.

**S16. Ans. (b)**

**Sol.** The error lies in part (B). Here, “on” should be replaced with “at” to make the given sentence grammatically correct. “On” is used to indicate touching and being supported by the top surface of something. While “at” is used to express location or arrival in a particular place or position.

**S17. Ans. (b)**

**Sol.** The set of words that appropriately fits into the given blanks is “headway” and “resort”.

Passage: a space or path by which something or someone can go through

Resonate: produce or be filled with a deep, full, reverberating sound.

Headway: progress, especially when this is slow or difficult.

Resort: the action of resorting to a course of action in a difficult situation.

Influx: an arrival or entry of large numbers of people or things.

Retract: draw back.

**S18. Ans. (a)**

**Sol.** The set of words that appropriately fits into the given blanks is “argued” and “violated”.

Argued: give reasons or cite evidence in support of an idea, action, or theory

Violated: break or fail to comply with (a rule or formal agreement)

Perpetuated: make (something) continue indefinitely.

Nullify: make legally null and void; invalidate.

Proposal: a plan or suggestion, especially a formal or written one

Terminate: bring to an end.

**S19. Ans. (a)**

**Sol.** The set of words that appropriately fits into the given blanks is “incubated” and “destroys”.

Incubated: give support and aid the development of (a new small business).

Destroys: end the existence of (something) by damaging or attacking it.

Formulated: create or prepare methodically

Facilitate: make (an action or process) easy or easier.

Postulated: suggest or assume the existence, fact, or truth of (something) as a basis for reasoning

**S20. Ans. (d)**

**Sol.** The set of words that appropriately fit into the given blanks is “intact” and “turned up”

Jabbered: talk in a rapid, excited, and often incomprehensible way.

Gave up: cease making an effort; admit defeat.

Foreseen: be aware of beforehand; predict.

Appeared: come into sight; become visible or noticeable

Enclosed: surrounded or closed off on all sides.

Turned up: appeared

Intact: not damaged or impaired in any way; complete.

**S21. Ans. (c)**

**Sol.** The set of words that appropriately fit into the given blanks is “research” and “particular”

remedy: a medicine, application, or treatment that relieves or cures a disease

Particular: used to single out an individual member of a specified group or class.

Residual: a quantity remaining after other things have been subtracted or allowed for.

**S22. Ans. (b)**

**Sol.** Among the given options, “stipulation and institute” make the most appropriate pair of words that can be used to fill in the blanks to make the given sentence grammatically correct and contextually meaningful.

Alleviation means the action or process of making suffering, deficiency, or a problem less severe.

Affront means an action or remark that causes outrage or offence.

Stipulation means a rule that must be followed or something that must be done.

Institute means to introduce or establish (a scheme, undertaking, or policy).

Mitigation means the action of reducing the severity, seriousness, or painfulness of something.

Reproach means to express to (someone) one's disapproval of or disappointment in their actions.

Diminution means a reduction in the size, extent, or importance of something.

Invigorate means giving strength or energy to something.

Humiliation means the feeling of being ashamed or losing respect for yourself.

Construct means to build or make (something, typically a building, road, or machine).

**S23. Ans. (c)**

**Sol.** Among the given options, “disputes and addressed” make the most appropriate pair of words that can be used to fill in the blanks to make the given sentence grammatically correct and contextually meaningful.

Pacts mean a formal agreement between individuals or parties.

Provoked means deliberately making (someone) annoyed or angry.

Dissensions mean disagreement that leads to discord.

Evoked means to bring or recall (a feeling, memory, or image) to the conscious mind.

Disputes mean a disagreement or argument.

Addressed means to think about and begin to deal with (an issue or problem).

Accords mean to give or grant someone (power, status, or recognition).

Induced means succeeding in persuading or leading (someone) to do something.

Velitations mean a dispute or slight contest.

Greeted means to give a polite word of recognition or sign of welcome when meeting (someone).

**S24. Ans. (b)**

**Sol.** Among the given options, “burgeoning” is the most appropriate word to fill in the given blank.

(a) withering- intended to make someone feel humiliated; scornful.

(b) burgeoning- beginning to grow or increase rapidly; flourishing.

(c) dwindling- gradually diminishing in size, amount, or strength.

(d) abridging- shorten (a piece of writing) without losing the sense.

(e) shrinking- becoming smaller in size or amount.

**S25. Ans. (d)**

**Sol.** Among the given options, “embrace” is the most appropriate word to fill in the given blank.

(a) repudiate- refuse to accept; reject.

(b) preclude- prevent from happening; make impossible.

(c) banish- send (someone) away from a country or place as an official punishment.

(d) embrace- accept (a belief, theory, or change) willingly and enthusiastically.

(e) expunge- obliterate or remove completely (something unwanted or unpleasant).

**S26. Ans. (c)**

**Sol.** Among the given options, “tackled” is the most appropriate word to fill in the given blank.

(a) persisted- to continue in an opinion or course of action in spite of difficulty or opposition.

(b) entreated- to ask someone earnestly or anxiously to do something.

(c) tackled- to make determined efforts to deal with (a problem or difficult task).

(d) endured- to suffer (something painful or difficult) patiently.

(e) insisted- to demand something forcefully, not accepting refusal.

**S27. Ans. (e)**

**Sol.** Among the given options, “apparent” is the most appropriate word to fill in the given blank.

- (a) amorphous- without a clearly defined shape or form.
- (b) obscure- not discovered or known about; uncertain.
- (c) oracular- mysterious and difficult to understand, but probably wise.
- (d) abstruse- difficult to understand; obscure.
- (e) apparent- clearly visible or understood; obvious.

**S28. Ans. (b)**

**Sol.** Among the given options, “adept” is the most appropriate word to fill in the given blank.

- (a) crude- in a natural or raw state; not yet processed or refined.
- (b) adept- very skilled or proficient at something.
- (c) onerous- (of a task or responsibility) involving a great deal of effort, trouble, or difficulty.
- (d) arduous- involving or requiring strenuous effort; difficult and tiring.
- (e) clumsy- awkward in movement or in handling things.

**S29. Ans. (c)**

**Sol.** Among the given options, “impetus” is the most appropriate word to fill in the given blank.

- (a) frailty- weakness in character or morals.
- (b) despise- feel contempt or a deep repugnance for.
- (c) impetus- acting or done quickly and without thought or care.
- (d) aversion- a strong dislike or disinclination.
- (e) debility- physical weakness, especially as a result of illness.

**S30. Ans. (c)**

**Sol.** Among the given options, “wrangles” is the most appropriate word to fill in the given blank.

- (a) accords- give or grant someone (power, status, or recognition).
- (b) rapports- agreement or sympathy between people or groups.
- (c) wrangles- a dispute or argument, typically one that is long and complicated.
- (d) ententes- a friendly understanding or informal alliance between states or factions.
- (e) assents- a useful or valuable thing or person.

**S31. Ans. (d)**

**Sol.** Among the given options, “vitiating” is the most appropriate word to fill in the given blank.

- (a) vivifying- to make something more lively or interesting; enliven.
- (b) perking- to become or make more cheerful, lively, or interesting.
- (c) mending- to repair something that is broken or not working.
- (d) vitiating- to spoil or impair the quality or efficiency of something.
- (e) enriching- to improve or enhance the quality or value of something.



**S32. Ans. (d)**

**Sol.** Interchange of (B)-(D) will give a grammatically and contextually correct statement. Thus, the sentence will be, "It is mandated to make available all necessary facilities and equipment to facilitate the recording of testimonies, arguments or opinions given by persons with disabilities in their preferred language and means of communication"

**S33. Ans. (b)**

**Sol.** Interchange of (B)-(C) will give a grammatically and contextually correct statement. Thus, the sentence will be, "A challenge in recruiting industry experts to teach is that regulations insufficiently acknowledge them as valid teaching faculty and recommend more full-time academic staff to meet the faculty-student ratio."

**S34. Ans. (e)**

**Sol.** All the words in the given sentence are correctly placed and they do not need any interchange within them.

**S35. Ans. (d)**

**Sol.** Interchange of (C)-(D) will give a grammatically and contextually correct statement. Thus, the sentence will be, "The MSME sector is a significant contributor in terms of industrial output, employment generation, and the share in gross domestic product and export."

**S36. Ans. (c)**

**Sol.** Interchange of (A)-(D) and (B)-(C) will give a grammatically and contextually correct statement. Thus, the sentence will be, "In order to make the MSME sector resilient we propose the provision of emergency funds for small businesses that should be made mandatory from the beginning."

**S37. Ans. (c)**

**Sol.** The correct combinations of phrases to make meaningful sentences are (B)-(D) and (C)-(F). Therefore the sentences will be, "The Nepal Parliament has been dysfunctional after cracks within the former Communist alliance developed" and "Macro-economic miseries have all wrecked Sri Lanka's plans for an economic recovery"

**S38. Ans. (a)**

**Sol.** The correct combinations of phrases to make meaningful sentences are (A)-(F) and (C)-(E). Therefore the sentences will be, "The adoption of the Charter at BIMSTEC summit promises to re-energise the 25-year-old grouping at a time of growing global uncertainties" and "Canberra is keen on bolstering its ties with India was very clear when it ceremoniously returned 29 antiquities to India"

**S39. Ans. (b)**

**Sol.** The correct combinations of phrases to make meaningful sentences are (B)-(F). Therefore the sentence will be, "Official industrial data shows output in the eight core sectors grew at the fastest pace in four months"

**S40. Ans. (e)**

**Sol.** None of the given combinations makes a meaningful sentence

**S41. Ans. (b)**

**Sol.** The correct combinations of phrases to make meaningful sentences are (B)-(F), (A)-(E) and (C)-(D). Therefore the sentence will be, "Groundwater helps reduce the risk of water shortage and caters to the needs of arid regions"

"The Russian invasion of Ukraine has led to a flurry of diplomatic activity in New Delhi"

"Biological contamination has also been reported from different parts of the country"

**S42. Ans. (a)**

**Sol.** The subject must agree with the verb in the sentence; 'Singular Subject' follows 'singular verb' and 'Plural Subject' follows 'plural verb'.

'Helping Verb' changes according to the number and person of the subject.

Now see the following points-

- A collective noun names a group of people or things such as the army, audience, government, family, group, team, and public.
- Although a collective noun looks plural, it's considered to be one unit, a whole, so it is singular. E.g. The group agrees that action is needed.
- The public receives weather warnings on the radio and TV.
- Exception: Number as a collective noun can be singular or plural. When a comes before a number, it is always plural. When the comes before the number, it is always singular.
- Here in the given sentence, 'have' should be replaced by 'has'.

As in the given sentence, the collective noun 'Army' should be considered singular and must be followed by a singular verb.

Hence, the correct sentence: Every election is guided by a 'hawa' (a wave), and after so many elections, the Army has become adept at manipulating the 'hawa'.

**S43. Ans. (e)**

**Sol.** The subject must agree with the verb in the sentence; 'Singular Subject' follows 'singular verb' and 'Plural Subject' follows 'plural verb'.

'Helping Verb' changes according to the number and person of the subject.

The word 'concept' is a singular noun and should be accompanied by a singular verb i.e. 'is' in this case. So there is no improvement needed.

Hence, the correct sentence: The CJI observed that the temple draws funds from the Consolidated Fund, is a "public place of worship" and that there is "no concept of private mandirs".

**S44. Ans. (d)**

**Sol.** Like most words, space has more than one meaning and the context should be taken into consideration to know its state of the count.

If the meaning of space according to the context is a mass noun: that is, uncountable, the article seems to be misplaced.

'Space' in general is an uncountable noun. In this particular scenario, a different sense of space is being employed, one which is a countable noun: effectively a synonym for time.

The correct article to use here is 'a' since the word it precedes has a consonant pronunciation.

Hence, the correct sentence: The day Alexander Frater was born, in a small mission hospital on an island in the South-West Pacific, "2.1 inches of rain fell in a space of seven hours and 12 minutes," knocking flowers off trees and washing away topsoil.

**S45. Ans. (d)**

**Sol.** The sentence is in the present perfect tense.

Structure: Subject + has/have+ third form the verb (V3) + object.

According to the sentence, since the subject is singular the verb that follows it should also be in the singular form i.e. 'has'.

According to the structure, the verb following the helping verb 'has' should be in its third form i.e. 'increased'.

Hence, the correct sentence: The intensity of competition has steadily increased since the entry of Reliance Jio, founded by the deep-pocketed billionaire Mukesh Ambani.

**S46. Ans. (e)**

**Sol.** The prepositions 'for' and 'of' are used for saying who or what is intended to receive something or get the benefit of it and to show belonging to something; being part of something; relating to something respectively.

The usage of both the prepositions is accurate and hence there is no improvement needed.

Hence, the correct sentence: The value of the Scholarship for the Intermediate Course is Rs.7, and for B.A. Pass and Honors Courses Rs.10 per men sem.

**S47. Ans. (e)**

**Sol.** The Bolden part of the sentence 'are receding with a considerable' correctly fits into the given sentence. The part 'are receding' is a present continuous tense and refers to the gradually reducing chances of opening of Iduki dam.

The bold part 'with a considerable' means a significant fall in the inflow of water into the reservoir Hence no improvement is the correct option.

**S48. Ans. (b)**

**Sol.** The part 'held day-long parleys with leaders' aptly fits into the given sentence. 'Held' is a past indefinite form of verb signifies that the politician had already conducted the meetings with the opposition leaders. Also the parts 'day-long' means for the whole day and 'parleys' mean conferences with the opposition parties.

Hence option (b) is the correct answer.

**S49. Ans. (a)**

**Sol.** The correct answer is option (a)

The given sentences show that one is the result of another action so, we need to use conjunction that shows result of the cause.

As: used to indicate that something happens during the time when something else takes place.

If: (introducing a conditional clause) on the condition or supposition that; in the event that.

Moreover: as a further matter; besides.

Nevertheless: in spite of that; notwithstanding; all the same.

However: used to introduce a statement that contrasts with or seems to contradict something that has been said previously.

Schools in some States decided to extend their summer vacations by a week or two AS the temperature edged past 40°C last year.

Now, we can conclude that option (a) is the appropriate connectors for the given sentences.

**S50. Ans. (b)**

**Sol.** The correct answer is (b).

We can see that both the given sentences are contradictory to each other i.e. the first sentence is in negative sense while the second sentence gives positive sense so for connecting these two we must use such conjunction that shows contradiction.

Not only..... but also: This conjunction shows parallelism of two things.

However: Used to introduce a statement that contrasts with or seems to contradict something that has been said previously.

Even though: despite the fact that.

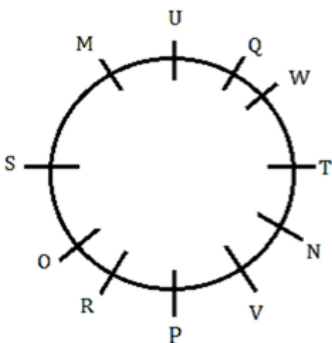
Because: for the reason that

As: used to indicate by comparison the way that something happens or is done.

Ajinkya Rahane is a very popular cricketer however, he has never won any ICC award.

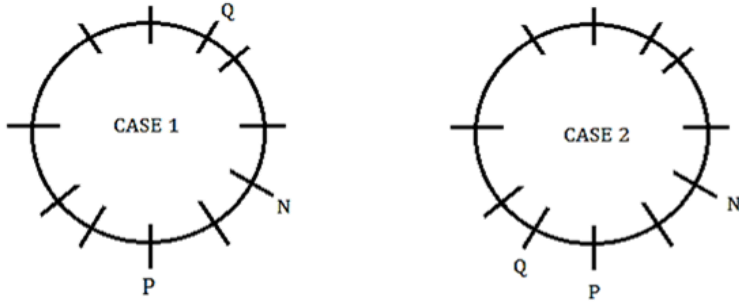
Direction (51-54):

**Final arrangement:**



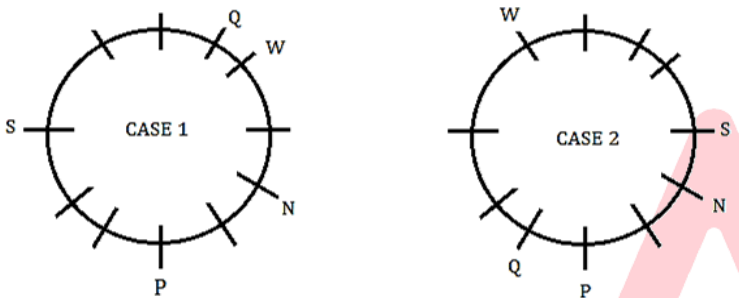
**Clues:** N sits second to the right of P. Two persons sit between N and Q.

**Inference:** From the above statement, we have two possible cases:



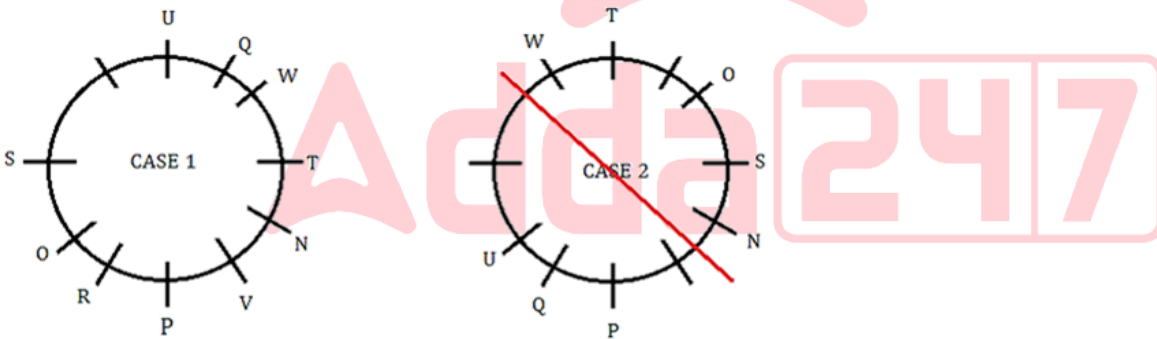
**Clues:** The number of persons sit between P and Q when counts from the left of P is same as the number of persons sit between N and S when counts from the right of N. Three persons sit between S and W who doesn't sit adjacent to P.

**Inference:**



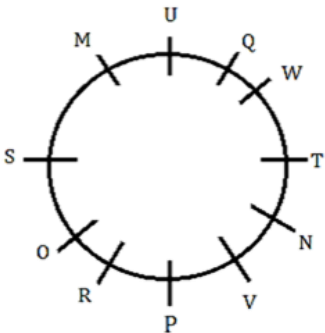
**Clues:** U sits third to the right of T who is an immediate neighbour of W. As many persons sit between S and R as between R and V. O sits next to S but not adjacent to U.

**Inference:** From the above statements case 2 gets eliminated because no place left for R and V.



**Clues:** M is one of the persons.

**Inference:** Thus the final arrangement is:



**S51. Ans. (c)**

**Sol.** Five persons sit between R and Q when counted from the left of Q.

**S52. Ans. (c)**

**Sol.** Statement given in option (c) is not true.

**S53. Ans. (b)**

**Sol.** If all the persons sit in alphabetical order starting from M in in anti-clockwise direction then the position of two persons (O and T) remain unchanged in their positions (Excluding M).

**S54. Ans. (e)**

**Sol.** All the pair of persons sit adjacent to each other except in option (e).

Directions (55-56):

**S55. Ans. (c)**

**Sol.** I.  $X * R$  (False) II.  $Q \% U$  (True)

**S56. Ans. (b)**

**Sol.** I.  $S \% C$  (True) II.  $G * K$  (False)

**S57. Ans. (b)**

**Sol.** According to the statement government wants to make new amendments in the Information Technology Act to curb the spread of fake news and removal of “unlawful content”. So only conclusion II follows but I do not follow as Government’s intention was not to seize the privacy.

Direction (58-62):

**Sol.** Four persons live between B and the one who likes red. B lives above the one who likes red. So, here we have two possible cases. The number of persons live above the one who likes red is same as the persons live below the one who likes green. A lives two floors below the one who likes green.

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
7	B			Green
6		Green	B	
5			A	
4	A			
3				
2		Red		
1				Red

G lives just above the one who likes yellow on an even numbered floor. One person lives between G and the one who likes pink. G doesn't like green. The number of persons lives between A and B is same as between A and E. So, case 2 gets eliminated here.

Floors	Case 1		Case 2	
	Persons	Colours	Persons	Colours
7	B			Green
6		Green	B	Pink/
5			A	
4	A	Pink	G	
3				Yellow
2	G	Red		Pink/
1	E	Yellow		Red

F lives above C but below D. The one who likes blue lives below F. F doesn't like white. Thus the final arrangement is:

Floors		
	Persons	Colours
7	B	White
6	D	Green
5	F	Black
4	A	Pink
3	C	Blue
2	G	Red
1	E	Yellow

**S58. Ans. (b)**

**Sol.** F lives on 5<sup>th</sup> floor.

**S59. Ans. (c)**

**Sol.** Statement given in option (c) is true.

**S60. Ans. (d)**

**Sol.** Four persons live between B and G.

**S61. Ans. (a)**

**Sol.** If all the persons live in alphabetical order from bottom to top then the position of one persons remains unchanged.

S62. Ans. (b)

Sol. F

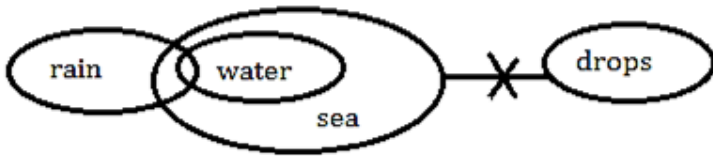
Directions (63-65):

S63. Ans. (e)

Explanation:

I. follows: Some part of rain which is sea can't be drops.

II. follows: All sea can related to rain in case of possibility.



S64. Ans. (a)

Explanation:

I. follows: Cold is only related to hot and with other elements it has negative element.

II. doesn't follow: Some part of summer is definitely not winter so all summer can't be winter even in case of possibility.

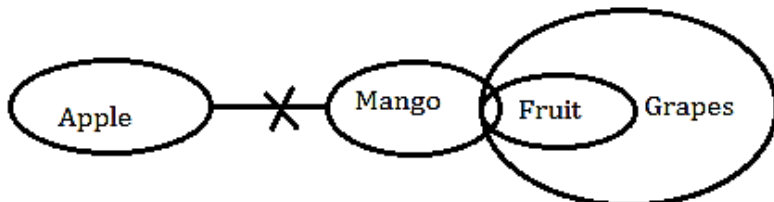


S65. Ans. (b)

Explanation:

I. doesn't follow: Some fruit is definitely not mango so all grapes can't be mango.

II. follows: Some part of fruit which is mango is not apple.



S66. Ans. (a)

Sol. As per given statement only I follow as the NEET's expert committee checked all the contentious questions and found no ambiguity so the court has declined the petition but II does not follow as it cannot be a reason to not to entertain a petition of a student.



**S67. Ans. (b)**

**Sol.** Given number – 8263528196

Number after operation – 9372439087

Arranging in ascending order – 0233477899

Odd placed digits – 0, 3, 4, 7 and 9

So, the required sum – 23

Directions (68-72):

**Sol.** Four boxes are kept between box U and box O. Two boxes are kept between box O and box P. Here, we get four possibilities.

Number	Boxes	Boxes	Boxes	Boxes
	Case 1	Case 2	Case 3	Case 4
7	U		O	
6		U		O
5	P			
4		P	P	
3				P
2	O		U	
1		O		U

Two boxes are kept between box U and box V which is kept just above box S. Case 3 and case 4 are cancelled here.

Number	Boxes	Boxes	Boxes	Boxes
	Case 1	Case 2	Case 3	Case 4
7	U		∅	
6		U		∅
5	P		V	
4	V	P	P	V
3	S	V		P
2	O	S	U	
1		O		U

Box M is kept below box U but kept above box Q. Case 2 is cancelled here.

Number	Boxes	Boxes
	Case 1	Case 2
7	U	
6	M	U
5	P	M
4	V	P
3	S	V
2	O	S
1	Q	∅

Final arrangement: -

Number	Boxes
7	U
6	M
5	P
4	V
3	S
2	O
1	Q

**S68. Ans. (a)**

**Sol.** Only statement I is true.

**S69. Ans. (c)**

**Sol.** Box M is kept just above box P.

**S70. Ans. (d)**

**Sol.** Four boxes are kept between box M and box Q.

**S71. Ans. (d)**

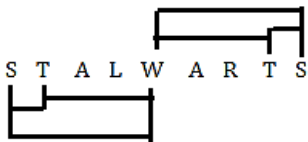
**Sol.** Box S is kept at the 3<sup>rd</sup> from bottommost position

**S72. Ans. (a)**

**Sol.** Sum of the box number of box U and box S is 10.

**S73. Ans. (e)**

**Sol.**



**S74. Ans. (b)**

**Sol.** Logic here is:

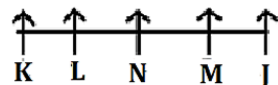
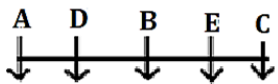
<b>G</b>	<b>L</b>	<b>E</b>	<b>A</b>	<b>M</b>
↓ <sup>-2</sup>	↓ <sup>+2</sup>	↓ <sup>-2</sup>	↓ <sup>+2</sup>	↓ <sup>-2</sup>
<b>E</b>	<b>N</b>	<b>C</b>	<b>C</b>	<b>K</b>

S75. Ans. (a)

**Sol.** Conclusion I is a likely outcome implied by the statement since the introduction of free bus services aims to reduce traffic congestion. However, Conclusion II is not necessarily true as the statement does not claim that all residents will abandon personal vehicles, only that the use of public transportation is promoted.

Directions (76-79):

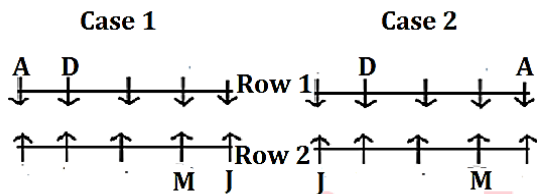
**Final arrangement:**



**Explanation:**

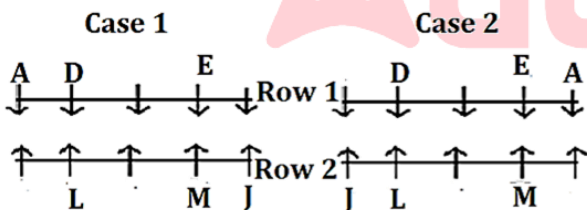
**Clues:** A sits diagonally opposite to J. M sits opposite to the one who sits second to the left of D. Both D and M does not sit at the extreme end.

**Inference:** From the above conditions, we get two possible cases i.e., Case 1 and Case 2:



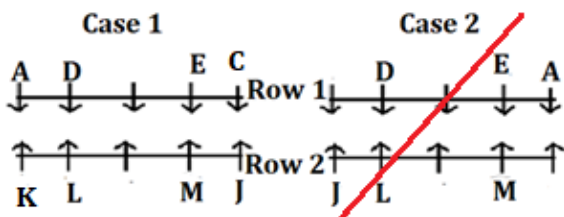
**Clues:** One person sits between M and L. E sits second to the left of D.

**Inference:** From the above conditions it is clear that D faces L and E faces M in both the cases.

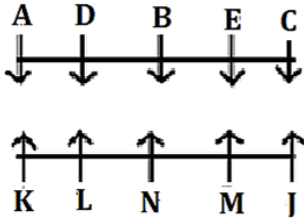


**Clues:** L is the only neighbor of K. C sits to the immediate left of E.

**Inference:** From the above Conditions Case 2 is cancelled as there is no place for K.



**Inference:** Only one person is left in both of the rows i.e., N and B. Final arrangement:



**S76. Ans. (d)**

**Sol.** B sits opposite to N.  
C sits second to the left of B.

**S77. Ans. (a)**

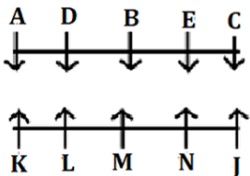
**Sol.** B is related to M.

**S78. Ans. (c)**

**Sol.** Except persons in option(c), first person sits opposite to the second person in other options.

**S79. Ans. (c)**

**Sol.** After arrangement, E sits opposite to N. A sit third to the right of E



**S80. Ans. (c)**

**Sol.** The fact that Mr. X has been short-listed for the post, does not confirm his selection, So, either I or II follows.

Hence, the answer is (c).

**S81. Ans. (a)**

**Sol.** Wrong number = 5

Patterns of series

$$3036 \div 6 - 1 = 505$$

$$505 \div 5 - 1 = 100$$

$$100 \div 4 - 1 = 24$$

$$24 \div 3 - 1 = 7$$

$$7 \div 2 - 1 = 2.5$$

$$2.5 \div 1 - 1 = 1.5$$

So, there should be 2.5 in place of 5.

**S82. Ans. (d)**

**Sol.** Wrong numbers = 125

Pattern of series

$$120120 \div 13 = 9240$$

$$9240 \div 11 = 840$$

$$840 \div 7 = 120$$

$$120 \div 5 = 24$$

$$24 \div 3 = 8$$

$$8 \div 2 = 4$$

So, there should be 120 in place of 125.

**S83. Ans. (b)**

**Sol.** Wrong Number = 812

Pattern of Series

$$1050 - 12 \times 2 = 1026$$

$$1026 - 12 \times 3 = 990$$

$$990 - 12 \times 4 = 942$$

$$942 - 12 \times 5 = 882$$

$$882 - 12 \times 6 = 810$$

$$810 - 12 \times 7 = 726$$

So, there should be 810 in place of 812.

**S84. Ans. (e)**

**Sol.** Wrong number = 96

Pattern of series

$$30 \times 0.5 + (1)^2 = 15 + 1 = 16$$

$$16 \times 1 + (2)^2 = 16 + 4 = 20$$

$$20 \times 1.5 + (3)^2 = 30 + 9 = 39$$

$$39 \times 2 + (4)^2 = 78 + 16 = 94$$

$$94 \times 2.5 + (5)^2 = 235 + 25 = 260$$

$$260 \times 3 + (6)^2 = 780 + 36 = 816$$

So, there should be 94 in place of 96.

**S85. Ans. (b)**

**Sol.**

Let total labor working in 2013 =  $100x$

Total child labor working in 2013 =  $28x$

ATQ -

$$28x \times \left( \frac{4}{7} - \frac{3}{7} \right) = 48$$

$$4x = 48$$

$$x = 12$$

$$\text{Required difference} = 1200 \times \left( \frac{40}{100} - \frac{32}{100} \right) = 96$$

**S86. Ans. (e)**

**Sol.**

Let total labors working in 2011 = 500y

So, total labors working in 2015 = 600y

Total female labor working in 2015 =  $600y \times \frac{24}{100} = 144y$

Total child labors working in 2011 =  $500y \times \frac{20}{100} = 100y$

Required percentage =  $\frac{144y - 100y}{100y} \times 100$   
= 44%

**S87. Ans. (c)**

**Sol.**

Let total labors working in 2011 = x

And, total labors working in 2012 = y

Total male labors working in 2011 = 0.5x

And, total male labors working in 2012 = 0.48y

ATQ -

$$\frac{0.5x}{0.48y} = \frac{5}{4}$$

$$x : y = 6 : 5$$

$$\text{so, } y = \frac{5x}{6}$$

ATQ -

$$x + \frac{5x}{6} = 2200$$

$$x = 1200$$

$$y = 1000$$

$$\text{Total child labors working in 2011 \& 2012 together} = 1200 \times \frac{20}{100} + 1000 \times \frac{20}{100} = 440$$

**S88. Ans. (c)**

**Sol.**

$$\text{Total child labor working in 2014} = \frac{2000}{25} = 80$$

$$\text{Total male labors working in 2014} = 80 \times \frac{60}{10} = 480$$

$$\text{Total child labor working in 2015} = 80 + 220 = 300$$

$$\text{Total male labors working in 2015} = 300 \times \frac{56}{20} = 840$$

$$\text{Required ratio} = \frac{480}{840} = 4 : 7$$

**S89. Ans. (e)**

**Sol.**

Let total labors working in 2011, 2012 and 2013 be  $80a$ ,  $100a$  &  $50a$  respectively

$$\text{Total female labors working in 2011} = 80a \times \frac{30}{100} = 24a$$

$$\text{Total female labors working in 2012} = 100a \times \frac{32}{100} = 32a$$

$$\text{Total female labors working in 2013} = 50a \times \frac{32}{100} = 16a$$

ATQ -

$$24a + 32a + 16a = 720$$

$$72a = 720$$

$$a = 10$$

Total number of child labors working in 2011, 2012 and 2013

$$= 800 \times \frac{20}{100} + 1000 \times \frac{20}{100} + 500 \times \frac{28}{100}$$

$$= 160 + 200 + 140$$

$$= 500$$

**S90. Ans. (d)**

**Sol.**

**Quantity I:**

$$\text{length of train} = \frac{24 \times 75}{18} \times 5$$

$$= 500 \text{ meter.}$$

**Quantity II:**

Let speed of train be ' $V$  km/hr' and length of train be ' $x$  meter'.

ATQ,

$$\frac{x}{12} = V \quad \dots(i)$$

Now,

$$\frac{x+1800}{55.2} = V \quad \dots(ii)$$

On solving (i) & (ii), we get:

$$x = 500 \text{ meter}$$

So, **Quantity II = quantity I**

**S91. Ans. (b)**

**Sol.**

**Quantity I:** Let C. P = Rs.  $100x$

$$\text{Then M. P} = 100x \times \frac{150}{100}$$

$$= \text{Rs. } 150x$$

$$\text{S.P} = 100x \times \frac{120}{100}$$

$$= \text{Rs. } 120x$$

ATQ,

$$120x = \text{Rs. } 1020$$

$$x = \text{Rs. } 8.5$$

$$\text{So, } 150x = \text{Rs. } 1275$$

**Quantity II:**

$$\text{Perimeter of field} = 37.5 \times 4$$

$$= 150 \text{ meter}$$

$$= 15000 \text{ cm.}$$

$$\text{Total cost of fencing} = 15000 \times 0.17$$

$$= \text{Rs. } 2550$$

So, **Quantity I < Quantity II.**

**S92. Ans. (a)**

**Sol.**

**Quantity I:**

$$\text{Amount} = 2450 + 2450 \times \frac{1}{7} \times 2$$

$$= 2450 + 700$$

$$= \text{Rs. } 3150$$

**Quantity II:**

$$\text{Amount} = 2450 \left(1 + \frac{1}{8}\right)^2$$

$$= 2450 \times \frac{81}{64}$$

$$= \text{Rs } 3100.78.$$

So, **Quantity I > Quantity II**

**S93. Ans. (b)**

$$\text{Sol. } x \times 0.38 + (1625 - x) \times 0.60 = 766$$

$$x = 950$$

$$1625 - x = 675$$

$$\text{required difference} = 950 - 675 = 275$$

**S94. Ans. (d)**

$$\text{Sol. Required percentage} = \frac{144}{198} \times 100 \approx 73\%$$

**S95. Ans. (b)**

$$\text{Sol. number of students present in class VI in school B} = 2 \times \left[450 \times \frac{32}{100}\right] - 2 = 286$$

$$\text{the total number of students in class VI in school B} = 286 \times \frac{100}{44} = 650$$



**S96. Ans. (d)**

**Sol.** Since data is not sufficient to calculate the required value.

**S97. Ans. (d)**

**Sol.**  $260 \times \frac{45}{100} + 250 \times \frac{24}{100} = 177$

**S98. Ans. (e)**

**Sol.**

(i)  $2x^2 - 12x + 16 = 0$

$2x^2 - 8x - 4x + 16 = 0$

$2x(x - 4) - 4(x - 4) = 0$

$(x - 4)(2x - 4) = 0$

$x = 4, 2$

(ii)  $2y^2 - 20y + 48 = 0$

$2y^2 - 12y - 8y + 48 = 0$

$2y(y - 6) - 8(y - 6) = 0$

$(y - 6)(2y - 8) = 0$

$y = 4, 6$

$y \geq x$

**S99. Ans. (b)**

**Sol.**

(i)  $x^2 - 3x - 40 = 0$

$x^2 - 8x + 5x - 40 = 0$

$x(x - 8) + 5(x - 8) = 0$

$(x - 8)(x + 5) = 0$

$x = 8, -5$

(ii)  $y^2 + 11y + 30 = 0$

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

$y(y + 6) + 5(y + 6) = 0$

$(y + 5)(y + 6) = 0$

$y = -6, -5$

$x \geq y$

**S100. Ans. (c)**

**Sol.**

(i)  $2x^2 - x - 3 = 0$

$2x^2 + 2x - 3x - 3 = 0$

$2x(x + 1) - 3(x + 1) = 0$

$(x + 1)(2x - 3) = 0$

$x = \frac{3}{2}, -1$

$$\begin{aligned} \text{(ii) } 2y^2 - 6y + 4 &= 0 \\ 2y^2 - 2y - 4y + 4 &= 0 \\ 2y(y - 1) - 4(y - 1) &= 0 \\ (y - 1)(2y - 4) &= 0 \\ y &= 1, 2 \end{aligned}$$

No relation can be established between x and y.

**S101. Ans. (c)**

**Sol.**

Let borrowed money = Rs. x

ATQ,

$$[(1.05x - 400)1.05 - 400]1.05 = 8400$$

$$[(1.05x - 400)1.05 - 400] = 8000$$

$$1.05x - 400 = 8000$$

$$x = \text{Rs. } 8000$$

**S102. Ans. (d)**

**Sol.**

Let cost price of Article A and Article B are 300x and 200x respectively.

So, selling price of Article A and Article B are 390x and 160x respectively.

ATQ,

$$(390x + 350 + 160x) - 500x = 500x \times \frac{38}{100}$$

$$140x = 350$$

$$x = 2.5$$

$$\text{Cost price of Article B} = 200x = \text{Rs. } 500$$

**S103. Ans. (e)**

**Sol.**

$$\text{Milk quantity in mixture A} = \frac{5}{5+3} = \frac{5}{8}$$

$$\text{Milk quantity in Mixture B} = \frac{2}{2+5} = \frac{2}{7}$$

$$\text{Milk quantity in resultant mixture} = \frac{43}{43+41} = \frac{43}{84}$$

Using Allegation method

Milk in A

$$\frac{5}{8}$$

Milk in B

$$\frac{2}{7}$$

$$\frac{43}{84}$$

$$\left( \frac{43}{84} - \frac{2}{7} \right)$$

$$\left( \frac{5}{8} - \frac{43}{84} \right)$$

$$\text{Required ratio} = \frac{\frac{43}{84} - \frac{2}{7}}{\frac{5}{8} - \frac{43}{84}} = \frac{\frac{19}{168}}{\frac{19}{168}} = 1$$

**S104. Ans. (b)**

**Sol.**

Let efficiency of Raj and Rahul are  $3e$  and  $2e$  respectively.  
and let total Work =  $W$

ATQ,

$$\frac{3W}{1.5e} = 72$$

$$W = 36e$$

$$\text{Required result 'X'} = \frac{36e}{5e} = 7.2 \text{ days.}$$

**S105. Ans. (a)**

**Sol.**

Let 5 years after, Ages of B and C are  $5x$  years and  $8x$  years respectively.

Present age of B =  $5x - 5$  years

And present age of C =  $8x - 5$  years

$$\text{So, present age of A} = \frac{5}{4} \times (5x - 5) = \frac{25(x-1)}{4} \text{ years.}$$

$$\text{Average of Present age of A and C} = \left( \frac{25(x-1)}{4} + 8x - 5 \right) \times \frac{1}{2}$$

$$60 = \frac{57x - 45}{4}$$

$$x = 5$$

$$\text{present age of B} = 25 - 5 = 20 \text{ years.}$$

**S106. Ans. (b)**

**Sol.**

Let time duration of investment of Ravi, Veer and Avinash be  $3t$ ,  $2t$  and  $t$  months respectively.

ATQ,

$$\frac{X \times 2t}{(X-2000) \times 3t + X \times 2t + (X+3000) \times t} = \frac{720}{2070}$$

$$\frac{2X}{6X-3000} = \frac{8}{23}$$

$$X = 12000$$

$$\text{Avinash investment} = \text{Rs. } 15000$$

**S107. Ans. (d)**

**Sol.**

Let speed of boat in still water be  $u$  kmph.

ATQ,

$$(u + 2) \times T - (u - 2) \times T = 60$$

$$4T = 60$$

$$T = 15 \text{ hours}$$

$$\frac{300}{u+2} + \frac{300}{u-2} = 27.5$$

$$11u^2 - 240u - 44 = 0$$

$$(u - 22)(11u + 2) = 0$$

$$u = 22 \text{ kmph.}$$

$$\text{Required time} = \frac{180}{22-2} = 9 \text{ hours.}$$

**S108. Ans. (b)**

**Sol.**

Let Height of Cylinder =  $h$  cm.

So, Radius of Cylinder =  $\frac{h+6}{2}$  cm

Total surface area of Cylinder =  $535.5\pi$  cm<sup>2</sup>.

$$2\pi r(r+h) = 535.5\pi$$

$$2 \times \frac{h+6}{2} \times \left\{ \frac{h+6}{2} + h \right\} = 535.5$$

$$h^2 + 8h - 345 = 0$$

$$(h - 15)(h + 23) = 0$$

$$h = 15 \text{ cm}$$

$$\text{radius} = 10.5 \text{ cm}$$

So, 400% of Volume =  $4 \times \pi r^2 h$

$$= 4 \times \frac{21}{2} \times \frac{21}{2} \times 15\pi$$

$$= 6615\pi \text{ cm}^3.$$

**S109. Ans. (e)**

**Sol.**

Let population of city 3 years ago =  $X$

ATQ,

$$X \times \frac{9}{8} \times \frac{9}{8} \times \frac{9}{10} = 5832$$

$$X = 5120$$

**S110. Ans. (c)**

**Sol.**

Total cases = 36

Total possible cases = 12  $\{(1,2), (1,5), (2,1), (2,4), (3,3), (3,6), (4,2), (4,5), (5,1), (5,4), (6,3), (6,6)\}$

$$\text{Required probability} = \frac{12}{36} = \frac{1}{3}$$

**S111. Ans. (a)**

**Sol.**

Let length of train P =  $2L$  meters

So, Length of platform =  $L$  meters

ATQ -

$$72 \times \frac{5}{18} = \frac{3L}{60}$$

$$3L = 1200$$

$$L = 400 \text{ meters}$$

So, length of train 'Q' =  $800 \times 2 = 1600$  meters

$$\text{Required time} = \frac{800+1600}{(72+108) \times \frac{5}{18}} = 48 \text{ sec}$$

**S112. Ans. (a);**

**Sol.**

Ratio of monthly expense to saving of Veer initially =  $100\% : 60\% = 5 : 3$

So monthly Income of Veer initially =  $(5 + 3)$  unit = 8 units

Increased monthly income of Veer =  $8 \times \frac{5}{4} = 10$  units

Expense is increased by 60%

Increased monthly expense of Veer =  $5 \times \frac{8}{5} = 8$  units

New saving =  $(10 - 8)$  units = 2 units

Difference between initial and new saving =  $(3 - 2)$  units = 1 unit

1 unit = Rs. 7000

So, initial income of Veer = 8 unit units = Rs. 56000

**Sol. (113 - 117):**

**In 2017:**

Let tables manufactured by B be  $10x$ .

So, tables manufactured by A =  $10x \times \frac{160}{100} = 16x$

Now, let tables manufactured by C & D be  $4y$  &  $3y$  respectively.

ATQ,

$$3y - 16x = 1000 \text{ ----- (i)}$$

$$\text{And, } 16x + 10x + 4y + 3y = 34000$$

$$26x + 7y = 34000 \text{ -----(ii)}$$

On solving (i) & (ii), we get:

$$x = 500, y = 3000$$

**In 2018:**

$$\text{Tables manufactured by B} = \frac{50}{100} \times 16 \times 500 = 4000$$

$$\text{Tables manufactured by C} = 6500 \times 2 - 4000 = 9000$$

Now, let tables manufactured by A & D be  $2z$  &  $3z$  respectively.

ATQ,

$$2z + 3z + 4000 + 9000 = 38000$$

$$5z = 25000$$

$$z = 5000$$

Company	2017	2018
A	8000	10000
B	5000	4000
C	12000	9000
D	9000	15000

**S113. Ans. (e)**

$$\begin{aligned}\text{Sol. Required \%} &= \frac{(15000+9000)-(8000+12000)}{8000+12000} \times 100 \\ &= \frac{4000}{20000} \times 100 = 20\%\end{aligned}$$

**S114. Ans. (a)**

$$\begin{aligned}\text{Sol. Required ratio} &= \frac{5000 + 4000}{9000 + 15000} \\ &= \frac{9000}{24000} = 3:8\end{aligned}$$

**S115. Ans. (c)**

$$\begin{aligned}\text{Sol. Average of tables manufactured by A \& C in 2018} &= \frac{10000+9000}{2} = 9500 \\ \text{Average of tables manufactured by B \& D in 2017} &= \frac{5000+9000}{2} = 7000 \\ \text{Required difference} &= 9500 - 7000 \\ &= 2500\end{aligned}$$

**S116. Ans. (b)**

$$\begin{aligned}\text{Sol. Required \%} &= \frac{12000 + 9000}{8000 + 10000} \times 100 \\ &= \frac{21000}{18000} \times 100 \\ &= 116.67\% \\ &= 117\% \text{ (approx.)}\end{aligned}$$

**S117. Ans. (b)**

$$\begin{aligned}\text{Sol. Tables manufactured by A, B \& C together in 2017} &= 8000 + 5000 + 12000 = 25000 \\ \text{Tables manufactured by C \& D together in 2018} &= 9000 + 15000 = 24000 \\ \text{Required difference} &= 25000 - 24000 = 1000\end{aligned}$$

**S118. Ans. (d)**

**Sol.**

Let first, second and third numbers are x, y and z respectively.

ATQ -

$$x + y + z = 60 \times 3 = 180 \text{ ----- (i)}$$

$$x + z = 54 \times 2 = 108 \text{ ----- (ii)}$$

From (i) and (ii) we get -

$$y = 72$$

$$\text{And also given, } y + z = 66 \times 2 = 132 \text{ ----- (iii)}$$

Put value of y in (iii):

$$z = 60$$

$$\text{So, three times of third number} = 60 \times 3 = 180$$

**S119. Ans. (b)**

**Sol.**

$$\text{Anurag's speed} = \frac{60}{10} = 6 \text{ km/hr}$$

$$\text{Dharam's speed} = \frac{60}{15} = 4 \text{ km/hr}$$

ATQ,

Let length of race be 'D' meters.

So,

$$\frac{D}{D-200} = \frac{6}{4}$$

$$\Rightarrow 2D = 1200$$

$$D = 600 \text{ m}$$

**S120. Ans. (a)**

**Sol.**

**Information Given:**

Pipe P can fill the tank in 12 hours

Pipe Q can fill the tank in 36 hours

Pipe R can empty the tank in 24 hours

**Formula Used:**

Net Efficiency = Efficiency of P + Efficiency of Q + Efficiency of R.

Time = 1(total work) / Net Efficiency

**Explanation:**

Let the capacity of the tank (LCM of 12, 36 & 24) = 72 units

The efficiency of pipes P, Q and R is 6, 2 & 3 units/ hours respectively

Required time =  $72 / (6+2-3) = 72/5 = 14.4$  hours