TESMUS

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TEST FORM NUMBER

Maximum Marks : 100
Total Questions : 100
Time Allowed : 60 Min.

INSTRUCTIONS TO CANDIDATE

Read the following instructions carefully before you begin to attempt the questions.

(1) This booklet contains **100 Questions** in all comprising the following **three** parts.

Part-(I) : English Language		**(30 Questions)**
Part-(II) : Quantitative Aptitude		**(35 Questions)**
Part-(III) : Reasoning Aptitude		**(35 Questions)**

(2) All the questions are compulsory and carry equal marks.

(3) Before you start to attempt the questions you must explore this booklet and ensure that it contains all the pages and find that no page is missing or replaced. If you find any flaw in this booklet, you must get it replaced immediately.

(4) **Each question carries negative marking also as 0.25 mark will be deducted for each wrong answer.**

(5) You will be supplied the Answer-sheet separately by the invigilator. You must complete the details of Name, Roll number, Test name/Id and name of the examination on the Answer-Sheet carefully before you actually start attempting the questions. You must also put your signature on the Answer-Sheet at the prescribed place. These instructions must be fully complied with, failing which, your Answer-Sheet will not be evaluated and you will be awarded 'ZERO' mark.

(6) Answer must be shown by completely blackening the corresponding circles on the Answer-Sheet against the relevant question number by **pencil or Black/Blue ball pen** only.

(7) A machine will read the coded information in the OMR Answer-Sheet. In case the information is incompletely/ different from the information given in the application form, the candidature of such candidate will be treated as cancelled.

(8) The Answer-Sheet must be handed over to the Invigilator before you leave the Examination Hall.

(9) Failure to comply with any of the above Instructions will make a candidate liable to such action/penalty as may be deemed fit.

(10) Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.

(11) Mobile phones and wireless communication device are completely banned in the examination halls/rooms. Candidates are advised not to keep mobile phones/any other wireless communication devices with them even switching it off, in their own interest. Failing to comply with this provision will be considered as using unfair means in the examination and action will be taken against them including cancellation of their candidature.

(12) No rough work is to be done on the Answer-Sheet.

(13) No candidate can leave the examination hall before completion of the exam.

NAME OF CANDIDATE:..
DATE :......................... CENTRE CODE :.................
ROLL No ....

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

English Language

Direction (1-5): Given below is a passage. There are some blanks given indicated by a letter. Read the passage and answer the questions that follow.

Mr. Stalin led the DMK to power in Tamil Nadu after a hiatus of 10 years. With his son also now an MLA, Mr. Stalin has taken full control of the DMK. His victory is not aided by any _____ **(D)** _____ public resentment against the AIADMK government, and therefore can be considered a positive verdict in his favor. **(B) Moreover**, the results also prove the **resilient** of Dravidian politics, **modified** to new **challenges**. Now in the Opposition, and its leadership still in a flux, the AIADMK will have to adapt to survive. There are other aspirants at play, and outgoing Chief Minister Edappadi K. Palaniswami might have to again beat off challenges from within the party to his leadership. In Kerala, the second consecutive victory of the Left Democratic Front led by the CPI(M) marks a departure from the antiincumbency verdicts since the 1980s. For Chief Minister PinarayiVijayan, the Congress, rendered aimless by its antediluvian leaders, was easy prey. But Mr. Vijayan also retained his support base through a mixture of political **(C) misunderstanding** and administrative measures. Having managed two floods and the pandemic with considerable efficiency, he also made some daring moves in social engineering that will continue to ripple. All that paid rich dividends for him, but the path ahead is going to be tougher as Kerala faces a fresh surge in COVID19 infections. Finances are also challenging for the State. Mr. Vijayan's complete command over the party has eclipsed other leaders, a situation that can turn out to be a crisis in the future. These results also hold some messages for national politics. For the Congress and its leader Rahul Gandhi, this is a _____ **(E)** _____ reminder that they have no viable politics at the moment. Mr. Gandhi spent a disproportionate amount of time and energy in Kerala. That turned out be a counterproductive strategy. The party lost Kerala and Assam, the two States it had a chance to win. Mr. Gandhi has to rethink his freelancing, footloose politics. For the BJP and its leaders, Mr. Modi and Home Minister Amit Shah, these results must be sobering. In Kerala, the party scored nil, losing the lone seat it won in 2016; in Tamil Nadu, it might even have damaged the prospects of ally AIADMK. The notion that there can be a nationalist straitjacket into which the diversity of India will fit is irresponsible. They must consider a softer pursuit of power. The Left tasted historic victory in Kerala but faces extinction in Bengal. Experiments in exclusive Muslim politics are not worthwhile, the results show. The Indian Secular Front, founded by a cleric in West Bengal hardly had any impact; in Assam, the AIUDF and Congress appear to have failed to _____ **(A)** _____ their individual tallies of 2016. The BJP might have lost more than it won, but Sunday's verdicts are no indication that a national level alternative to it is in the making. That is still some distance away in time and effort.

1. Which of the following can fit in the blank (A)?
   (A) Gathered   (B) Introspection
   (C) Aggregate   (D) Assimilate
   (E) None of these

2. Which of the following can replace the word as mentioned in (C) if it is incorrect?
   I) brilliance
   II) Acumen
   III) Sensitive
   (A) Only I   (B) Only II and III
   (C) Only II   (D) Only I and II
   (E) No correction required

3. Which of the following can fit the blank (D)?
   I) strident
   II) harsh
   III) Soft
   (A) Only I   (B) Only III
   (C) Only I and II   (D) Only II
   (E) All are correct

4. The sentence labeled by (B) contains four words in bold. Select the word which is inappropriate.
   (A) Moreover
   (B) Resilient
   (C) Challenges and Resilient
   (D) Modified
   (E) All are correct

5. Which of the following can fill the blank (E)?
   I) Bright
   II) Terrible
   III) Grim
   (A) Only I   (B) Only II and III
   (C) Only I and II   (D) Only I and III
   (E) All are correct

Direction (6-10): In each of the following a grammatically correct and meaningful sentence is given with four words given in bold in each. Which of the following words should replace each other to form a meaningful and grammatically correct sentence?

6. By **resolution (a)** from the vote on the UN Human Rights Council **abstaining (b)** on Sri Lanka, India has **signalled (c)** its **unwillingness (d)** to upset its neighbor.
   (A) a-b   (B) a-c, b-d
   (C) a-d, b-c   (D) a-b, c-d
   (E) None of these

7. India does not want to be seen as ignoring Sri Lanka's **stubborn (a)** to meet the political aspirations of the Tamils or **endorsing (b)** the country's **reluctance (c)** refusal to ensure any sort of **accountability (d)** for its war time past.
   (A) a-d   (B) b-c
   (C) a-c   (D) a-b
   (E) None of these

8. The Supreme Court **a) received** its **b) concern** that political parties could misuse crores of rupees **c) flagged** as donations through electoral bonds to bankroll **d) violent** protests or even terror.
   (A) a-d   (B) b-c
   (C) a-c   (D) a-b
   (E) None of these

9. The Supreme Court refused to **a) allegations** in a petition **b) levelled** by former Mumbai Police to order a CBI investigation into **c) intervene** of corruption and abuse of office **d) filed** against Maharashtra Home Minister.
   (A) a-c, b-d   (B) b-c
   (C) a-d, b-c   (D) a-b, c-d
   (E) None of these

10. The COVID19 management plan by the civic body involves home surveillance, strict **a) testing** of those who are under home quarantine and **b) speeding** up

of fever clinics, along with **c) monitoring** of persons and **d) ramping** up vaccination.

(A) b-d	**(B)** a-c, b-d
(C) a-d, b-c	**(D)** a-b, c-d
(E) None of these	

Direction (11-14): Two columns are given in each question and each column has three parts of a sentence. Choose the most suitable pair, which makes a grammatically correct and contextually coherent statement.

11.

Column I	Column II
A) True to form,he showed no reaction to the surprise visitor	D) as he casually flipped on the switch,flooding the room in light.
B) The current increases to a maximum as E approaches F, means of the switch H.	E) and diminishes to almost nothing when E is brought up to D; it can be completely interrupted
C) He retreated toward the bathroom just as the door opened-and just as Dean hit the light switch	F) and rolled to the floor, flooding the room in brighess.

(A) A-F, B-D, C-E	**(B)** A-E, B-D, C-F
(C) A-E, B-F, C-D	**(D)** C-F, B-E, A-D
(E) None of the above is correct match	

12.

Column I	Column II
A) So also,owing to bodily and mental health and strength,we may be continually cheered	D) any but normal pupils, and my only means of conversing with them was reading their lips.
B) Of course my instructors had had no experience in teaching	E) back to normal and she finally regained control.
C) The cool damp cloth did wonders to get her own face	F) by a like but more normal and natural society,and come to know that we are never alone

(A) A-E, B-D, C-F	**(B)** A-F, B-D, C-E
(C) A-E, B-F, C-D	**(D)** C-F, B-E, A-D
(E) None of the above is correct match	

13.

Column I	Column II
A) I was growing to love this town,with its simple history,	D) him than simple friendship?
B) Did he suspect that she was beginning to feel more for	E) proud of its old homes and field stone fences,telling the world it was a place worth staying
C) The soft sand in the ravine would make it simple	F) for the Indians to detect where they had emerged.

(A) A-E, B-D, C-F	**(B)** A-F, B-D, C-E
(C) A-E, B-F, C-D	**(D)** C-F, B-E, A-D
(E) None of the above is correct match	

14.

Column I	Column II
F) for the Indians to detect where they had emerged.	D) irritant poison when taken internally.
B) The result is to prevent the local corrosive action of.	E) the poison and to prevent absorption of the metals
C) The salt is a corrosive	F) corrosive irritation of the throat and stomach,and at the same time cause vomiting.

(A) A-E, B-D, C-F	**(B)** A-F, B-E, C-D
(C) A-E, B-F, C-D	**(D)** C-F, B-E, A-D
(E) None of the above is correct match	

Direction (15-18): Which of the following phrases (A), (B), (C) and (D) can replace the phrase in bold so as to make the statement correct grammatically and contextually. If the statement does not need any correction then mark option E as your answer.

15. The Union ministry of health and family welfare said on Wednesday that India surpassed the United States **to becoming the fastest vaccinating** country in the world.
(A) to becomes the fastest vaccinating
(B) to become the fastest vaccinating
(C) to become the faster vaccinating
(D) to become the fastest vaccination
(E) No correction required

16. Rajesh, being tired by bullying of some people because of his physical impairment, decided to give up on sports but his family **got by him** to work harder and remain calm.
(A) Egged on him
(B) Hanged around with him
(C) Embarked on him
(D) Keep over him
(E) No correction required

17. The Central Vigilance Commission (CVC) has **modified the guidelines pertaining** to the transfer and posting of officials in vigilance units of government organizations, restricting their tenure to 3 years at one place.
(A) mollify its guidelines pertaining
(B) modify its guidelines pertaining
(C) modified its guidelines pertaining
(D) been modifying its guidelines pertain
(E) No correction required

18. Protesting farmers on Tuesday blocked a BJP MP's car, **smashed its windscreen as** he tried to leave a party worker's home, police said.
(A) smashes its windscreen though
(B) smashing their windscreen as
(C) smashes its windscreen as
(D) smashing its windscreen as
(E) No correction required

Direction (19-25): Read the passage carefully and answer the questions given below it. Certain words/ phrases have been given in bold to help you locate them while answering some of the questions.

In the last year alone, India has witnessed an acceleration in the impacts of climate change. Devastating floods in Assam, Bihar, Kerala and Mumbai … **(A)** damage by cyclones Amphan and Nisarga, locust swarms and forest fires — these are warning signs that climate change has already begun to impact Indian lives and economies. Climate change is a notoriously difficult challenge to crack. Its effects are local, but the cause is global, needing all countries to get on board for action.

It is in this context that Joseph Biden's success in the US presidential elections is being celebrated by climate activists across the world. The US is the world's second-largest emitter of carbon dioxideand a major **contributor** to global warming. Without their active cooperation and commitment, the world has no hope of being able to make any progress on climate change.

In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check. The agreement commits all countries to keep global warming within 2 degrees Celsius. Even 2 degrees of global warming can lead to catastrophic effects — likethe tropical storms, floods, droughts, forest fires and locust swarms of 2020 tell us. In reality, what we need is far more **aggressive** action — but the Paris Agreement provides at least a partial pathway.

Within six months of becoming president in 2017, Donald Trump announced that the US would be pulling out of the Paris Agreement. On 4 November this year, just a day after the US presidential elections, the US formally withdrew from the agreement, making it the only country to do so.

For the first time in history, in a country where the climate change agenda has been dominated by denial, the issue made it to the national elections, pushed to the forefront by young climate activists. The Sunrise Movement, a political movement led by young Americans,was organized across the US to make climate change one of the defining issues of the 2020 US elections. Middle-school children, too young to vote, but worried about their future in a climate-impacted world, held up signs outside political rallies saying, "Youths need a Green New Deal". Sunrise supports the ambitious Green New Deal that young Democrats like Alexandria Ocasio-Cortez, RashidaTlaib and Ilhan Omar advocate. This differs from Biden's position in several critical ways. For one, the Green New Deal has an ambitious goal of making the US carbon-neutral by 2030 —emitting only as much as can be locked up in oceans and forests. That's just 10 years away. Biden says this is impossible.

He plans to make the US economy net-zero by 2050, 20 years later than the Green New Deal targets.

19. In December 2015, how many countries signed the Paris Agreement on climate change?
(A) 196   (B) 152
(C) 147   (D) 192
(E) 156

20. Which of the following statements is not true in the context of the passage?
I. Within six months of becoming president in 2019, Donald Trump announced that the US would be pulling out of the Paris Agreement.
II. In December 2015, 198 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check
III. The agreement commits all countries to keep global warming within 2 degrees Celsius.
(A) Only II   (B) Both II and III
(C) Only III   (D) Both I and II
(E) None of them is true

21. Which country is the world's second-largest emitter of carbon dioxide?
(A) India   (B) China
(C) USA   (D) UK
(E) Japan

22. Which country is the only country that withdrew from the Paris Climate Agreement?
(A) India   (B) China
(C) USA   (D) UK
(E) Japan

23. Which of the following words given in the options should come at the place marked as (A) in the above passage to make it grammatically correct and meaningful?
(A) inveterate   (B) widespread
(C) idiosyncratic   (D) proselytize
(E) persuade

24. Which of the following is synonymous with 'contributor'?
(A) conundrum   (B) donor
(C) vexed   (D) preclude
(E) hinder

25. Which of the following is antonymous with 'aggressive'?
(A) corpulence   (B) meek
(C) plumpness   (D) censurable
(E) reminisce

Direction (26-30): In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

26. The **significance** of the switching of **loyalities** of the Syro-Malabar Church needs to be **underscored** by the fact that it has been a crucial political **player** in the State right from the 1950s.
(A) Significance   (B) Loyalities
(C) Underscored   (D) Player
(E) All are correct.

27. The Maoists are now **considerably** weaker than a decade ago, with several senior leaders either dead or **incarcerated**, but their core **insurgent** force in south Bastar remains **infusion**.
(A) Considerably   (B) Incarcerated
(C) Insurgent   (D) Infusion
(E) All are correct.

28. While a military response and **recreminations** will inevitably follow the **ambush**, the civil society **plea** must not be ignored if a long-lasting solution to the conflict is to be **achieved**.
(A) Recreminations   (B) Ambush
(C) Plea   (D) Achieved
(E) All are correct.

29. It is **ironic** that it has taken a pandemic to **abolish** the significance of fair and equal **access** to the Supreme Court, or the lack **thereof**.
(A) Ironic   (B) Abolish
(C) Access   (D) Thereof
(E) All are correct.

30. Former U.S. President Donald Trump **accused** China of **unfair** trade practices and **perused** a dual policy of offering deals and **threatening** sanctions, but China continued to extend its influence.
(A) Accused   (B) Unfair
(C) Perused   (D) Threatening
(E) All are correct.

Quantitative Aptitude

Direction (31-35): What value should come in the place of (?) in the following number series?

31. 234, 251, 285, 336, ?, 489
(A) 404   (B) 376
(C) 410   (D) 415
(E) 398

32. 478, 482, 473, 498, 449, ?
(A) 530   (B) 549
(C) 593   (D) 570
(E) 513

33. 100, 121, 145, 174, ?, 255
(A) 195   (B) 210
(C) 178   (D) 182
(E) 206

34. 736, ?, 706, 666, 586, 426
(A) 746   (B) 716
(C) 726   (D) 736
(E) 756

35. ?, 315, 331, 350, 372, 397
(A) 312   (B) 305
(C) 308   (D) 310
(E) 302

Direction (36-40): Study the following information carefully and answer the questions.

The given table chart shows the number of floral perfumes sold by five different shops i.e. P, Q, R, S and T and also given the ratio of the number of floral to woody perfumes sold by five different shops and the difference between the number of floral and fruity perfumes sold by five different shops.
Note: Each shop, the number of floral perfumes sold is more than the number of fruit perfumes sold.

Shops	The number of floral perfumes sold	Ratio of the number of floral to woody " @" perfumes sold	Difference between the number of floral and fruity perfumes sold
P	440	11:9	70
Q	350	5:4	110
R	500	2:3	180
S	240	4:5	50
T	600	3:1	210

36. If the average number of floral, woody and fruity perfumes unsold by shop P is equal to the number of woody perfumes sold by shop S and the ratio of the number of floral, woody and fruity perfumes unsold by shop S is 3:4:2, then find the total number of woody perfumes manufactured by shop P?(Total perfumes manufactured = Total perfumes sold + Total perfumes unsold)
(A) 520   (B) 760
(C) 440   (D) 600
(E) None of these

37. Find the ratio of the total number of fruity perfumes sold by shops P and S together to the number of woody perfumes sold by shop T?
(A) 11:9   (B) 7:3
(C) 9:4   (D) 14:5
(E) None of these

38. If the total number of woody and fruity perfumes sold by shop Q is 30% more than that of shop X and the number of floral perfumes sold by shop X is 2/5th of the number of woody perfumes sold by shop R, then find the total number of floral, woody and fruity perfumes sold by shop X?
(A) 700   (B) 920
(C) 810   (D) 650
(E) None of these

39. If the number of green perfumes sold by shop S is 75% of the number of fruity perfumes sold by shop R, then find the total number of woody, fruity and green perfumes sold by shop S?
(A) 250   (B) 730
(C) 510   (D) 640
(E) None of these

40. The total number of floral and fruity perfumes sold by shop T is what percentage more than the number of woody perfumes sold by shop R?
(A) 20%   (B) 18%
(C) 32%   (D) 25%
(E) None of these

Direction (41-45): Study the following information carefully and answer the questions.

The given pie chart shows the degree distribution of the total number of students (present + absent) in six different schools i.e. A, B, C, D, E and F and the total number of students in six different schools is 7200.
Note: The ratio of the number of boys in school A, C and D is 9:5:11 respectively. The number of boys in school B is 400 more than that of girls. The number of boys in school E is double the number of girls in that school. The number of girls in school C is 300.
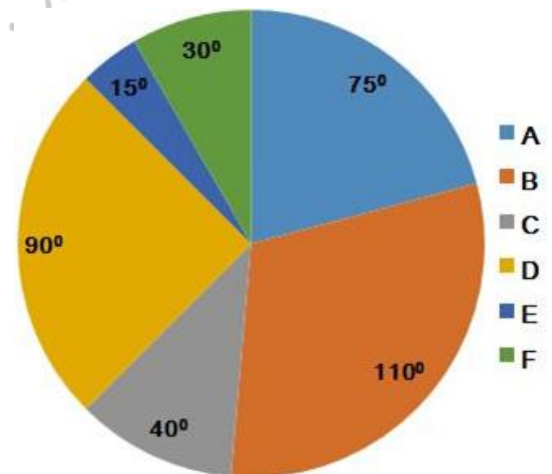
41. If the number of boys present in school A is 540 more than the number of boys absent in school A and the number of boys to girls present in school A is 3:2, then find the total number of students absent in school A?
(A) 350   (B) 420
(C) 210   (D) 300
(E) None of these

42. Find the difference between the number of boys in school B and the number of girls in school E?
(A) 750   (B) 920
(C) 660   (D) 1200
(E) 800

43. If the total number of students in school X is double the number of girls in school D and the number of

boys in school E to X is 4:9, then find the number of girls in school X?

(A) 680   **(B)** 840
(C) 950   **(D)** 710
(E) None of these

44. If the ratio of the number of boys to girls in school F is 3:1, then the number of boys in school F is what percentage less than the number of boys in school C?
(A) 32%   **(B)** 25%
(C) 60%   **(D)** 45%
(E) 10%

45. Out of the total number of girls in schools B and C, 70% and 55% of the students are present. Find the difference between the number of girls absent in schools B and C?
(A) 135   **(B)** 190
(C) 150   **(D)** 115
(E) None of these

46. The speed of the boat in still water is three times more than the speed of the stream and the boat covers 324 km upstream in 12 hours, then find the sum of the time taken by the boat to cover 180 km in still water and 135 km in downstream?
(A) 9 hours   **(B)** 8 hours
(C) 10 hours   **(D)** 12 hours
(E) None of these

47. A train crosses x m platform in 16 seconds and the same train crosses 150 m tunnel in 18 seconds. If the speed of the train is 90 km/hr, then find the time taken by the train to cross 3xmbridge?
(A) 20 seconds   **(B)** 32 seconds
(C) 16 seconds   **(D)** 24 seconds
(E) None of these

48. A shopkeeper bought 120 bottles for Rs.9000. He sold certain bottles at a profit of 20% and the remaining bottles sold at a profit of 60%. If he gets an overall profit of Rs.3150, then find the number of bottles sold at a profit of 60%?
(A) 80   **(B)** 50
(C) 45   **(D)** 75
(E) None of these

49. Ram and Sita started a business with an investment of Rs. X and Rs.(X+1000) respectively. After 6 months, Shri joined the business with an investment of Rs.8000. If the profit share of Sita is 50% more than that of Shri, then find the investment of Ram?
(A) Rs.5000   **(B)** Rs.7000
(C) Rs.4000   **(D)** Rs.6000
(E) None of these

50. A box contains 13 blue balls, x green balls and y black balls. If the probability of selecting a green ball is 3/10 and the probability of selecting a black ball is 3/8, then find the ratio of the number of greenballs to black balls in the box?
(A) 1:1   **(B)** 9:7
(C) 8:3   **(D)** 4:5
(E) 2:1

Direction (51-55): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,

51. I) $x^2 + 8x - 105 = 0$ II) $y^2 + 31y + 240 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y or relationship can't be determined.

(D) x < y   **(E)** x ≤ y

52. I) $x^2 - 2x - 99 = 0$ II) $y^2 + 5y - 104 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y or relationship can't be determined.
**(D)** x < y   **(E)** x ≤ y

53. I) $x^2 + 21x + 108 = 0$ II) $2y^2 + 13y - 45 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y or relationship can't be determined.
(D) x < y   **(E)** x ≤ y

54. I) $x^2 + 50x + 600 = 0$ II) $y^2 + 33y + 270 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y or relationship can't be determined.
(D) x < y   **(E)** x ≤ y

55. I) $x^2 - 25x + 150 = 0$ II) $y^2 + 19y + 84 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y or relationship can't be determined.
(D) x < y   **(E)** x ≤ y

Direction (56-60): Study the following information carefully and answer the questions.

The given line graph shows the total number of cars (white and red) manufactured by five different companies i.e. A, B, C, D and E and also given the percentage of the number of white cars manufactured by five different shops.

— The total number of cars manufactured (in tens)
— % of the number of white cars manufactured
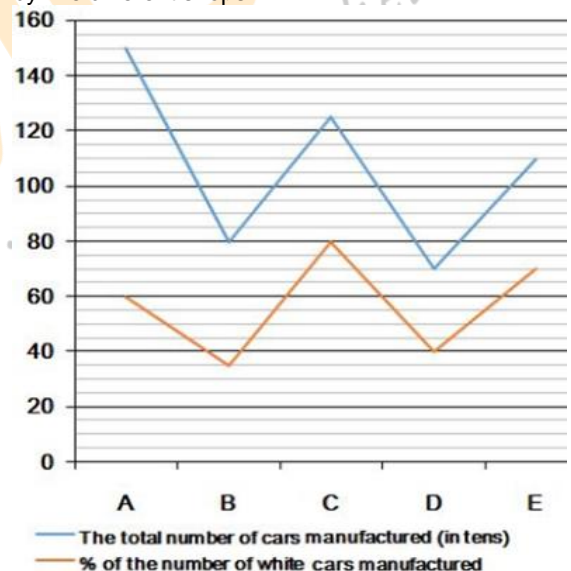
56. If the ratio of the number of white cars manufactured by company B to F is 7:8 and the average number of red cars manufactured by companies B and F is 450, then find the total number of cars manufactured by company F?
(A) 520   **(B)** 700
(C) 640   **(D)** 950
(E) None of these

57. Out of the number of red cars manufactured by companies A and C, 25% and 32% of the cars are damaged. Find the difference between the number of damaged red cars manufactured by companies A and C?
(A) 70   **(B)** 50
(C) 110   **(D)** 90
(E) 60

58. The number of white cars manufactured by company A is how much more than the total number of red cars manufactured by companies C and E together?

(A) 190   **(B)** 450
(C) 320   **(D)** 210
(E) None of these

59. If the total number of cars unsold by company C is 120 more than the number of red cars manufactured by company E and the number of white cars sold by company C is 400 more than that of red cars, then find the number of white cars unsold by company C?
(A) 270   **(B)** 340
(C) 520   **(D)** 400
(E) None of these

60. The number of white cars manufactured by companies D and E together is what percentage of the total number of cars manufactured by company A?
(A) 45%   **(B)** 30%
(C) 70%   **(D)** 52%
(E) None of these

61. The simple interest received on Rs. P at the rate of 12% per annum for 3 years is Rs.40 more than the compound interest received on Rs.4000 at the rate of 20% per annum for 2 years. Find the value of P?
(A) Rs.5000   **(B)** Rs.4400
(C) Rs.3600   **(D)** Rs.9000
(E) None of these

62. A vessel contains 280 liters of a mixture of milk and water. If 120 liters of milk and 200 liters of water is added to the mixture, then the quantity of milk is 14.28% more than that of water. Find the initial quantity of milk in the vessel?
(A) 175 liters   **(B)** 200 liters
(C) 180 liters   **(D)** 210 liters
(E) 160 liters

63. The number of students in school A is 25% more than that of school B and the number of students in school C is 60 more than that of school A. The number of students in school C is X% more than that of school B. If the total number of students in school B and C together is 600, then find the value of X?
(A) 50   **(B)** 10
(C) 25   **(D)** 30
(E) 20

64. The ratio of the efficiency of A, B and C is 2:3:4 respectively and the time taken by A to complete the work is 30 days more than that of B. Find the time taken by A, B and C together to complete the work?
(A) 48 days   **(B)** 36 days
(C) 20 days   **(D)** 60 days
(E) 32 days

65. The ratio of the area of the rectangle to the area of the semicircle is 8:11 and the circumference of the semicircle is 108 m. Find the length of the rectangle if the length of the rectangle is 22 m more than its breadth?
(A) 36 m   **(B)** 20 m
(C) 45 m   **(D)** 27 m
(E) 32 m

Reasoning Aptitude

Direction (66-70): Study the following information carefully and answer the questions given below.

Ten people P, Q, R, S, T, U, V, W, X and Y are sitting around a rectangular table such that one person sits at each corner, one person sits on each shorter side and two persons sit on each longer side of the table. Five of them are facing inside and five of them are facing outside. Not more than two adjacent persons are facing the same direction.
R sits second to the right of U who doesn't sit in the corner of the table. R who sits in the corner of the table doesn't face the same direction as U. Only two people are sitting between R and P who doesn't sit adjacent to U. P sits second to the left of S. W sits to the immediate right of S. Only two people are sitting between W and X where both of them are facing the same direction. X and S are facing the opposite direction to each other. Y sits second to the left of T who sits adjacent to V. Q and Y are facing outside the table. Y doesn't sit immediate right of P.

66. Who among the following person sits adjacent to the one who sits third to the right of V?
(A) The one who sits second to the right of U
(B) V
(C) The one who sits immediate left of T
(D) X
(E) None of these

67. Which of the following statements is/are true with respect to the final arrangement?
(A) U is sitting fourth to the right of Y
(B) R is sitting to the immediate right of V
(C) T is sitting adjacent to S
(D) All are true
(E) None of these

68. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one who doesn't belong to that group.
(A) T-U   **(B)** S-R
(C) V-Y   **(D)** X-Y
(E) W-U

69. Who among the following sits fifth to the right of W?
(A) T
(B) The one who sits third to the right of U
(C) P
(D) The one who sits third to the left of Q
(E) None of these

70. How many people are sitting between S and T when counting from the left of T?
(A) Three   **(B)** Two
(C) Four   **(D)** One
(E) None of these

Direction (71-73): Study the following information carefully and answer the questions given below.

Six cities L, M, N, O, P and Q reported different Covid cases in a day.
City M reported more cases than City O which reported more cases than City P. City Q reported less cases than Cities L and P. City N reported more cases than City M. City N didn't report the highest number of cases. The number of cases reported by City O is 400.

71. Which of the following city reported the second highest number of covid cases?
(A) Q   **(B)** M
(C) L   **(D)** N
(E) None of these

72. If the covid cases reported by City N is 600, then what may be the covid cases reported by City M?

(A) 550   **(B)** Either (A) or (D)
(C) 350   **(D)** 595
(E) 300

73. If the sum of the covid cases reported by Cities P and O is 700 and the sum of the covid cases reported by Cities O and Q is 500, then what is the sum of the covid cases reported by Cities P and Q?
(A) 350   **(B)** 300
(C) 400   **(D)** 450
(E) 500

Direction (74-78): Study the following information carefully and answer the questions given below.

Eleven persons L, M, N, O, P, Q, R, S, T, U and V reached the airport one after another but not necessarily in the same order.
Only two persons reached the airport between R and N who reached the airport two persons before O. Only two persons reached the airport between O and S who reached the airport before N. As many persons reached the airport between S and R as between O and P. Only five persons reached the airport between P and M who reached the airport three persons after Q. As many persons reached the airport before Q as after V. Only three persons reached the airport between V and T. L reached the airport before N.

74. Who among the following person reached the airport four persons after L?
(A) The one who reached the airport immediately before S
(B) U
(C) The one who reached the airport four persons before P
(D) V
(E) None of these

75. How many persons reached the airport between M and U?
(A) Three
(B) As many persons reached the airport after T
(C) Five
(D) As many persons reached the airport before Q
(E) None of these

76. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one that doesn't belong to that group.
(A) L-M   **(B)** S-N
(C) O-U   **(D)** Q-L
(E) N-T

77. If all the persons reached the airport in the English alphabetical order, then how many persons remain unchanged in their position?
(A) Four   **(B)** Three
(C) Five   **(D)** One
(E) None of these

78. Which of the following statements is/are true with respect to the final arrangement?
(A) P reached the airport four persons after N
(B) L reached the airport immediately before Q
(C) U reached the airport before R
(D) All are true
(E) None of these

Direction (79-81): Study the following information carefully to answer the questions.

Eight people are from the same family. K is the nephew of J who is the only brother-in-law of H. H has no siblings. M is the grandson of I who is the mother-in-law of L. L is the only sister-in-law of N who is the daughter of H. N is the aunt of only two persons. O is one of the persons in the family.

79. If S is the Son-in-Law of L, then how is O related to S?
(A) Granddaughter   **(B)** Wife
(C) Son   **(D)** Daughter
(E) Cannot be determined

80. How many female members are there in the family?
(A) Five   **(B)** Six
(C) Four   **(D)** Three
(E) Cannot be determined

81. If J is married to A, then how is A related to I?
(A) Nephew   **(B)** Niece
(C) Sister-in-law   **(D)** Daughter-in-law
(E) None of these

Direction (82-85): Study the following information carefully and answer the questions given below.

In a certain language,
"Rapid water table threat" is written as "uvm tvk xyz krg"
"Mobile application rapid rural" is written as "opq abc tvk lmn"
"Central ground water application" is written as "uvm rst lmn uvw"
"Wells dipped application" is written as "lmn def ghi"
"Some table wells mobile" is written as "krg abc def jkl"

82. What is the code for the phrase "rural threat" in the given language?
(A) krg xyz   **(B)** xyz tvk
(C) opq tvk   **(D)** xyz opq
(E) Cannot be determined

83. What will be the code for the phrase "some ground" if the code for the phrase "rapid central" is "rst tvk"?
(A) uvw jkl   **(B)** rst jkl
(C) tvk uvw   **(D)** jkl tvk
(E) None of these

84. What is the code for the word "dipped" in the given language?
(A) rst   **(B)** uvw
(C) jkl   **(D)** ghi
(E) None of these

85. What is the code for the phrase "table application" in the given language?
(A) lmn uvm   **(B)** krg uvm
(C) lmn krg   **(D)** opq krg
(E) Cannot be determined

Direction (86-90): Study the following information carefully and answer the questions given below.

Six plants - Celery, Hosta, Aster, Cotton, Thyme and Sage are planted either on 16th or 25th of three different months - June, July and August of the same year, but not necessarily in the same order. Each plant is planted in different types of soils viz. Chalky, Clay, Sandy, Peaty, Silty and Loamy.
Cotton is planted on an even-numbered date. Only one plant is planted between Cotton and the plant which is planted in Peaty soil. The plant which is

planted in Sandy soil is planted immediately before the plant which is planted in Peaty soil. Sage is not planted in the month which has an odd number of days but is planted in Silty soil. Aster is planted immediately after Sage but is not planted in Loamy soil. As many plants are planted before Celery is same as after Aster. Thyme is not planted in August. Hosta is neither planted in Chalky soil nor in Loamy soil.

86. Which of the following plant is planted on 25th July?
(A) Hosta
(B) The plant which is planted in Sandy soil
(C) Sage
(D) The plant which is planted in Chalky soil
(E) None of these

87. Cotton is planted in which of the following soil?
(A) Silty soil   (B) Peaty soil
(C) Loamy soil   (D) Chalky soil
(E) None of these

88. How many plants are planted after the plant which is planted in Silty soil?
(A) Two
(B) As many plants planted between Thyme and Aster
(C) As many plants planted before Celery
(D) As many plants planted before Hosta
(E) None

89. Aster is planted in which of the following month and date?
(A) 16th July   (B) 25th August
(C) 25th July   (D) 16th August
(E) 25th June

90. Which of the following statement(s) is/are true with respect to the final arrangement?
(A) Thyme is planted in Clay soil
(B) Aster is planted in the month of July
(C) Celery is planted immediately after Sage
(D) Hosta is planted on 25th July
(E) Celery is planted in Peaty soil

Direction (91-95): Study the following information carefully and answer the questions given below.

Nine people A, B, C, D, E, F, G, H and I are standing in a linear row facing towards north but not necessarily in the same order.
Only three people are standing between G and E, where none of them are standing at the ends of the row. E stands second to the right of A. D stands to the immediate left of A. Only one person stands between D and B. H stands fourth to the right of B. Only two people are standing between H and I. As many people stand to the right of C as to the left of B. C is not standing at the end of the row.

91. Who among the following person is standing fourth to the left of A?
(A) The one who stands to the immediate right of B
(B) E
(C) The one who stands second to the left of G
(D) C
(E) None of these

92. How many persons are standing between B and the one who stands third to the left of I?
(A) Two
(B) As many persons stand to the left of D
(C) Four

(D) As many persons stand to the right of G
(E) None of these

93. If all the persons are made to stand in the English alphabetical order from the left end, then how many persons changed in their positions?
(A) 3   (B) 4
(C) 5   (D) 6
(E) None of these

94. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one who doesn't belong to that group.
(A) F-I   (B) D-H
(C) G-E   (D) B-C
(E) D-A

95. Which of the following statements is/are true with respect to the final arrangement?
(A) C stands fifth to the right of G
(B) Only one person stands between D and E
(C) A stands to the immediate left of I
(D) All are true
(E) None of these

Direction (96-98): In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true.

96. **Statements:** K ≥ Z > M ≤ V; U > M ≥ L = A; X < L ≤ O < H
Conclusions: I. U > K   **II.** A < H
(A) Only conclusion I is true
(B) Both conclusions I and II are true
(C) Neither conclusion I nor II is true
(D) Only conclusion II is true
(E) Either conclusion I or II is true

97. **Statements:** P ≤ X < Y = Z; A > B ≤ Y < U; T ≤ V > A ≥ W
Conclusions: I. Z > B   **II.** P < U
(A) Only conclusion I is true
(B) Both conclusions I and II are true
(C) Neither conclusion I nor II is true
(D) Only conclusion II is true
(E) Either conclusion I or II is true

98. **Statements:** C > D ≥ E > F; G ≤ H ≥ E ≤ J; K ≥ L > H = N
Conclusions: I. J ≥ F   **II.** K ≤ G
(A) Only conclusion I is true
(B) Both conclusions I and II is true
(C) Neither conclusion I nor II is true
(D) Only conclusion II is true
(E) Either conclusion I or II is true

99. If all the letters of the word "EDUCATION" are arranged in alphabetical order from left to right, then which of the following is the fifth letter to the left of the third letter from the right end of the newly formed word?
(A) E   (B) A
(C) C   (D) N
(E) None of these

100. If all the odd digits of the number "5434782612349" are dropped, then what will be the sum of the third digit from the left end and fourth digit from the right end of the newly formed number?
(A) 7   (B) 8
(C) 9   (D) 10
(E) None of these

English Language

1. **Answer: C**
The sentence already has a main verb i.e. 'failed' and therefore an infinitive has to come after it i.e. 'to + first form of verb'. Check the options. A is a participle and B is a noun and therefore eliminated. D and C are correct forms of required verb. The sentence last few words that indicate that the Congress and AIUDF have failed to match their last performance of 2016 and it means that they have failed to aggregate their numbers. Assimilate means take in and understand fully (information or ideas) and therefore illogical for the blank.

2. **Answer: D**
Tell me something. Has Mr. Vijayan lost the election? No. Is the passage critical towards Mr. Vijayan? No. So, do you think we should use a negative sense for him? No. So the word in bold in the sentence is wrong. Brilliance and acumen which mean the ability to make good judgements are correct words for the sentence and either of them can fit. Sensitive is an adjective while we require a noun there.

3. **Answer: C**
Take a look back at the sentence where the blank is present. The sentence is saying that Mr. Stalin did not win because public resented the present government. So, the public resentment should be qualified by a word negative in sense because resentment itself is a word in negative sense meaning resistance. Therefore Strident and Harsh both fit the blank. Soft is a word used to describe a sensitive or kind person or thing

4. **Answer: B**
All words are correct except 'resilient'. Read carefully and you will find that the word follows 'of'. Therefore a noun should come rather than the adjective 'resilient'. 'Resilience' is the correct word.

5. **Answer: B**
The last part of the sentence i.e. after the blank says that 'that they have no viable politics at the moment'. This means that the congress is not as competent as its rivalries. So, what kind of reminder does the situation send to congress? Worrying? Obviously yes. Therefore, both terrible and grim aptly fit the blank. Bright is opposite in meaning to the sentence.

6. **Answer: A**
By **abstaining** from the vote on the UN Human Rights Council **resolution** on Sri Lanka, India has **signalled** its **unwillingness** to upset its neighbour.

7. **Answer: C**
India does not want to be seen as ignoring Sri Lanka's **reluctance** to meet the political aspirations of the Tamils or **endorsing** the country's **stubborn** refusal to ensure any sort of **accountability** for its wartime past

8. **Answer: C**
The Supreme Court **flagged** its **concern** that political parties could misuse crores of rupees **received** as donations through electoral bonds to bankroll **violent** protests or even terror

9. **Answer: A**
The Supreme Court refused to **intervene** in a petition **filed** by former Mumbai Police to order a CBI investigation into **allegations** of corruption and abuse of office **leveled** against Maharashtra Home Minister.

10. **Answer: B**
The COVID19 management plan by the civic body involves home surveillance, strict **monitoring** of those who are under home quarantine and **ramping** up of fever clinics, along with **testing** of persons and **speeding** up vaccination

11. **Answer: D**

Option D is the correct combination. After connecting respective sentences,
C-F) He retreated toward the bathroom just as the door opened—and just as Dean hit the light switch and rolled to the floor, flooding the room in brightness.
B-E) The current increases to a maximum as E approaches F, means of the switch H and diminishes to almost nothing when E is brought up to D; it can be completely interrupted
A-D) True to form, he showed no reaction to the surprise visitor as he casually flipped on the switch, flooding the room in light.

12. **Answer: B**
Option B is the correct combination. After connecting respective sentences,
A-F) So also, owing to bodily and mental health and strength, we may be continually cheered by a like but more normal and natural society, and come to know that we are never alone
B-D) Of course my instructors had had no experience in teaching any but normal pupils, and my only means of conversing with them was reading their lips.
C-E) The cool damp cloth did wonders to get her own face back to normal and she finally regained control.

13. **Answer: A**
Option A is the correct combination, After the combination of respective sentences,
A-E) I was growing to love this town, with its simple history, proud of its old homes and field stone fences, telling the world it was a place worth staying
B-D) Did he suspect that she was beginning to feel more for him than simple friendship?
C-F) The soft sand in the ravine would make it simple for the Indians to detect where they had emerged.

14. **Answer: B**
Option B is the correct combination, After the combination of respective sentences,
A-F) A good palliative is sweet oil; this will allay any corrosive irritation of the throat and stomach, and at the same time cause vomiting.
B-E) The result is to prevent the local corrosive action of the poison and to prevent absorption of the metals
C-D) The salt is a corrosive irritant poison when taken internally.

15. **Answer: B**
The Union ministry of health and family welfare said on Wednesday that India surpassed the United States **to become the fastest vaccinating** country in the world.
Here, infinitive will be used- to + v1

16. **Answer: A**
Rajesh being tired by bullying of some people because of his physical impairment, decided to give up on sports but his family **egged on him** to work harder and remain calm.
Egg on- Encourage someone to do something
Get by- survive without having the things you need or want
Keep over- cover something with
Embark on- Start or engage in something
Hang around with- stay in a place for fun

17. **Answer: C**
The Central Vigilance Commission (CVC) has **modified its guidelines pertaining** to the transfer and posting of officials in vigilance units of government organizations, restricting their tenure to 3 years at one place.
Here, present perfect tense should be used- has + v3

18. **Answer: D**
Protesting farmers on Tuesday blocked a BJP MP's car, **smashing its windscreen as** he tried to leave a party worker's home, police said.

Here, gerund should be used after a comma (,) - Verb + ing

19. Answer: A
The question can be answered by reading the following paragraph- In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check.
So option A will be the correct choice here.

20. Answer: D
Both statements I and II are not true. The year 2019 is wrong in I. In II, 198 is wrong. The question can be answered by reading the following paragraph. The correct statements are:-
I. Within six months of becoming president in 2017, Donald Trump announced that the US would be pulling out of the Paris Agreement.
II. In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check

21. Answer: C
The question can be answered by reading the following paragraph- The US is the world's second-largest emitter of carbon dioxide and a major contributor to global warming.
So option C will be the correct choice here.

22. Answer: C
The question can be answered by reading the following paragraph- On 4 November this year, just a day after the US presidential elections, the US formally withdrew from the agreement, making it the only country to do so.
So option C will be the correct choice here.

23. Answer: B
In the given sentence, only 'widespread' makes it grammatically as well as contextually correct.
Option A is incorrect as inveterate means having a particular habit, activity, or interest that is long-established and unlikely to change.
Option B is correct as widespread means found or distributed over a large area or number of people which does not make any sense here.
Option C is incorrect because idiosyncratic means relating to idiosyncrasy; peculiar or individual.
Option D is incorrect because proselytize means convert or attempt to convert (someone) from one religion, belief, or opinion to another.
Option E is incorrect as persuade means to induce (someone) to do something through reasoning or argument.

24. Answer: B
'Donor' is synonymous with 'contributor'. 'Vexed' means (of a problem or issue) difficult and muchdebated; problematic. 'Preclude' means prevent from happening; make it impossible. So option B will be the correct choice here.

25. Answer: B
'Meek' means quiet, gentle, and easily imposed on; submissive. So it is antonymous with 'aggressive'. 'Corpulence' means the state of being fat; obesity. So option B will be the correct choice here.

26. Answer: B
Among the given highlighted words, 'Loyalities' has been incorrectly spelt.
'Loyalties- a strong feeling of support or allegiance' should be the correct word.

27. Answer: D
Among the given highlighted words, 'infusion' will be replaced by 'intact'.
Infusion (noun) - the introduction of a new element or quality into something
Intact (adjective) - untouched especially by anything that harms or diminishes.

28. Answer: A
Among the given highlighted words, 'recreminations' has been incorrectly spelt.
'Recriminations- An accusation in response to one from someone else' should be the correct usage

29. Answer: B
Among the given highlighted words, 'Abolish' will be replaced by 'Acknowledge'.
Abolish- formally put an end to (a system, practice, or institution).
Acknowledge- recognize the importance or quality of.

30. Answer: C
Among the given highlighted words, 'Perused' will be replaced by 'Pursued'.
Perused - read (something), typically in a thorough or careful way.
Pursued - follow or chase (someone or something).

Quantitative Aptitude

31. Answer: A
$234 + 17 \times 1 = 251$
$251 + 17 \times 2 = 285$
$285 + 17 \times 3 = 336$
$336 + 17 \times 4 = \textbf{404}$
$404 + 17 \times 5 = 489$

32. Answer: D
$478 + 2^2 = 482$
$482 - 3^2 = 473$
$473 + 5^2 = 498$
$498 - 7^2 = 449$
$449 + 11^2 = \textbf{570}$

33. Answer: B
100　　121　　145　　174　　**210**　　255
　　21　　24　　29　　36　　45
　　　3　　5　　7　　9

34. Answer: C
$736 - 10 = \textbf{726}$
$726 - 20 = 706$
$706 - 40 = 666$
$666 - 80 = 586$
$586 - 160 = 426$

35. Answer: E
$\textbf{302} + 13 = 315$
$315 + 16 = 331$
$331 + 19 = 350$
$350 + 22 = 372$
$372 + 25 = 397$

Answer (36-40): Shop: P
The number of woody perfumes sold = 440 × 9/11 = 360
The number of fruity perfumes sold = 440 – 70 = 370
Shop: Q
The number of woody perfumes sold = 350 × 4/5 = 280
The number of fruity perfumes sold = 350 – 110 = 240
Shop: R
The number of woody perfumes sold = 500 × 3/2 = 750
The number of fruity perfumes sold = 500 – 180 = 320
Shop: S
The number of woody perfumes sold = 240 × 5/4 = 300
The number of fruity perfumes sold = 240 – 50 = 190
Shop: T
The number of woody perfumes sold = 600 × 1/3 = 200
The number of fruity perfumes sold = 600 – 210 = 390

Shops	The number of floral perfumes sold	The number of woody perfumes sold	The number of fruity perfumes sold

P	440	360	370
Q	350	280	240
R	500	750	320
S	240	300	190
T	600	200	390

36.   Answer: B
The total number of floral, woody and fruity perfumes unsold by shop P = 300 × 3 = 900
The number of woody perfumes sold by shop P = 900 × 4/(3 + 4 + 2) = 900 × 4/9 = 400
The total number of woody perfumes manufactured by shop P = 360 + 400 = 760

37.   Answer: D
The total number of fruity perfumes sold by shops P and S together = 370 + 190 = 560
Required ratio = 560:200 = 14:5

38.   Answer: A
The total number of woody and fruity perfumes sold by shop Q = 280 + 240 = 520
The total number of woody and fruity perfumes sold by shop X = 520 × 100/130 = 400
The number of floral perfumes sold by shop X = 750 × 2/5 = 300
The total number of floral, woody and fruity perfumes sold by shop X = 400 + 300 = 700

39.   Answer: B
The number of green perfumes sold by shop S = 320 × 75/100 = 240
The total number of green, woody and fruity perfumes sold by shop S = 300 + 190 + 240 = 730

40.   Answer: C
The total number of floral and fruity perfumes sold by shop T = 600 + 390 = 990
Required percentage = (990 − 750)/750 × 100 = 240/750 × 100 = 32%

Answer (41-45): The total number of students in school A = 7200 × 75/360 = 1500
The total number of students in school B = 7200 × 110/360 = 2200
The total number of students in school C = 7200 × 40/360 = 800
The total number of students in school D = 7200 × 90/360 = 1800
The total number of students in school E = 7200 × 15/360 = 300
The total number of students in school F = 7200 × 30/360 = 600
The number of boys in school B = (2200 + 400)/2 = 2600/2 = 1300
The number of girls in school B = 2200 − 1300 = 900
The ratio of the number of boys to girls in school E = 2:1
The number of boys in school E = 300 × 2/(2 +1) = 300 × 2/3 = 200
The number of girls in school E = 300 − 200 = 100
The number of girls in school C = 300
The number of boys in school C = 800 − 300 = 500
The number of boys in school A = 500 × 9/5 = 900
The number of girls in school A = 1500 − 900 = 600
The number of boys in school D = 500 × 11/5 = 1100
The number of girls in school D = 1800 − 1100 = 700

Schools	The total number of students	The number of boys	The number of girls
A	1500	900	600
B	2200	1300	900
C	800	500	300
D	1800	1100	700
E	300	200	100
F	600	-	-

41.   Answer: D

The number of boys present in school A = (900 + 540)/2 = 1440/2 = 720
The number of girls present in school A = 720 × 2/3 = 480
The number of students absent in school A = 1500 − (720 +480) = 1500 − 1200 = 300

42.   Answer: D
Required difference = 1300 − 100 = 1200

43.   Answer: C
The total number of students in school X = 700 × 2 = 1400
The number of boys in school X = 200 × 9/4 = 450
The number of girls in school X = 1400 − 450 = 950

44.   Answer: E
The number of boys in school F = 600 × 3/(3 + 1) = 600 × 3/4 = 450
Required percentage = (500 - 450)/500 × 100 = 50/5 = 10%

45.   Answer: A
The number of girls absent in school B = 900 × (100 − 70)/100 = 900 × 30/100 = 270
The number of girls absent in school C = 300 × (100 − 55)/100 = 300 × 45/100 = 135
Required difference = 270 − 135 = 135

46.   Answer: B
The ratio of the speed of the boat in still water to speed of the stream = 4x:1x
324/(4x − 1x) = 12
324/3x = 12
x = 108/12
x = 9
The speed of the stream = 9 km/hr
The speed of the boat in still water = 4 × 9 = 36 km/hr
Required time = 180/36 + 135/(36 + 9) = 5 + 135/45 = 5 + 3 = 8 hours

47.   Answer: D
Let the length of the train = 'a' m/sec
The speed of the train = 90 × 5/18 = 25 m/sec
a + x = 25 × 16
a + x = 400 ---(1)
a + 150 = 25 × 18
a = 450 − 150
a = 300 ---(2)
From (1) and (2),
300 + x = 400
x = 100
Required time = (300 + 3 × 100)/25 = 600/25 = 24 seconds

48.   Answer: C
The cost price of each bottle = 9000/120 = Rs.75
x × (75 × 20/100) + (120 − x) × (75 × 60/100) = Rs.3150
x × 15 + (120 − x) × 45 = 3150
15x + 5400 − 45x = 3150
5400 − 3150 = 30x
x = 2250/30
x = 75
The number of bottles sold at a profit of 60% = 120 − 75 = 45

49.   Answer: A
(X + 1000) × 12/(8000 × 6) = 150/100
(X + 1000)/4000 = 3/2
X + 1000 = 6000
X = 5000
The investment of Ram = Rs.5000

50.   Answer: D
The total number of balls in the box = 13 + x + y
$xC_1/(13 + x + y)C_1 = 3/10$
x = 3/10 × (13 + x + y)
x = 39/10 + 3x/10 + 3y/10
10x - 39 = 3x + 3y ---(1)
$yC_1/(13 + x + y)C_1 = 3/8$
y = 3/8 × (13 + x + y)

y = 39/8 + 3x/8 + 3y/8
8y = 39 + 3x + 3y ---(2)
From (1) and (2),
8y = 39 + 10x – 39
10x = 8y
x/y = 8/10
x/y = 4/5
The ratio of the number of green balls to black balls in the box = 4:5

51.   Answer: B
$x^2 + 8x – 105 = 0$
$x^2 + 15x – 7x – 105 = 0$
$x(x + 15) – 7(x + 15) = 0$
x = - 15, + 7
$y^2 + 31y + 240 = 0$
$y^2 + 15y + 16y + 240 = 0$
$y(y + 15) + 16(y + 15) = 0$
y = - 15, - 16
Hence, x ≥ y

52.   Answer: C
$x^2 – 2x – 99 = 0$
$x^2 – 11x + 9x – 99 = 0$
$x(x – 11) + 9(x – 11) = 0$
x = + 11, - 9
$y^2 + 5y – 104 = 0$
$y^2 + 13y – 8y – 104 = 0$
$y(y + 13) – 8(y + 13) = 0$
y = - 13, + 8
The relationship can't be determined

53.   Answer: E
$x^2 + 21x + 108 = 0$
$x^2 + 12x + 9x + 108 = 0$
$x(x + 12) + 9(x + 12) = 0$
x = - 12, - 9
$2y^2 + 13y – 45 = 0$
$2y^2 + 18y – 5y – 45 = 0$
$2y(y + 9) - 5(y + 9) = 0$
y = - 9, + 5/2
y = - 9, + 2.5
Hence, x ≤ y

54.   Answer: D
$x^2 + 50x + 600 = 0$
$x^2 + 30x + 20x + 600 = 0$
$x(x + 30) + 20(x + 30) = 0$
x = - 30, - 20
$y^2 + 33y + 270 = 0$
$y^2 + 18y + 15y + 270 = 0$
$y(y + 18) + 15(y + 18) = 0$
y = - 18, - 15
Hence, x < y

55.   Answer: A
$x^2 – 25x + 150 = 0$
$x^2 – 10x – 15x + 150 = 0$
$x(x – 10) – 15(x – 10) = 0$
x = + 10, + 15
$y^2 + 19y + 84 = 0$
$y^2 + 12y + 7y + 84 = 0$
$y(y + 12) + 7(y + 12) = 0$
y = - 12, - 7
Hence, x > y

Answer (56-60): Company: A
The total number of cars manufactured = 1500
The number of white cars manufactured = 1500 × 60/100 = 900
The number of red cars manufactured = 1500 – 900 = 600
Company: B
The total number of cars manufactured = 800
The number of white cars manufactured = 800 × 35/100 = 280
The number of red cars manufactured = 800 – 280 = 520
Company: C

The total number of cars manufactured = 1250
The number of white cars manufactured = 1250 × 80/100 = 1000
The number of red cars manufactured = 1250 – 1000 = 250
Company: D
The total number of cars manufactured = 700
The number of white cars manufactured = 700 × 40/100 = 280
The number of red cars manufactured = 700 – 280 = 420
Company: E
The total number of cars manufactured = 1100
The number of white cars manufactured = 1100 × 70/100 = 770
The number of red cars manufactured = 1100 – 770 = 330

Companies	The total number of cars manufactured	The number of white cars manufactured	The number of red cars manufactured
A	1500	900	600
B	800	280	520
C	1250	1000	250
D	700	280	420
E	1100	770	330

56.   Answer: B
The number of white cars manufactured by company F = 280 × 8/7 = 320
The number of red cars manufactured by company F = 450 × 2 – 520 = 900 – 520 = 380
Required total = 320 + 380 = 700

57.   Answer: A
The number of damaged red cars manufactured by company A = 600 × 25/100 = 150
The number of damaged red cars manufactured by company C = 250 × 32/100 = 80
Required difference = 150 – 80 = 70

58.   Answer: C
The number of red cars manufactured by companies C and E together = 250 + 330 = 580
Required difference = 900 – 580 = 320

59.   Answer: D
The total number of cars unsold by company C = 330 + 120 = 450
The total number of cars sold by company C = 1250 – 450 = 800
The number of white cars sold by company C = (800 + 400)/2 = 1200/2 = 600
The number of white cars unsold by company C = 1000 – 600 = 400

60.   Answer: C
The number of white cars manufactured by companies D and E together = 280 + 770 = 1050
Required percentage = 1050/1500 × 100 = 70%

61.   Answer: A
P × 3 × 12/100 – (4000 × (1 + 20/100)² – 4000) = Rs.40
P × 36/100 – (4000 × (120/100)² – 4000) = Rs.40
P × 36/100 – 5760 + 4000 = 40
P × 36/100 = 40 + 1760
P = 1800 × 100/36
P = Rs.5000

62.   Answer: B
Let the initial quantity of milk = x liters
And the initial quantity of water = (280 – x) liters
The ratio of the quantity of milk to water in the final mixture = 114.28:100 = 8:7
(x + 120)/(280 – x + 200) = 8/7
7x + 840 = 480 × 8 – 8x

15x = 3840 – 840
x = 3000/15
x = 200
The initial quantity of milk in the vessel = 200 liters

63.   **Answer: A**
Let the number of students in school B = 4a
And the number of students in school A = 4a × 125/100 = 5a
4a + 5a + 60 = 600
9a = 540
a = 60
The number of students in school B = 4 × 60 = 240
The number of students in school C = 300 + 60 = 360
X = (360 – 240)/240 × 100 = 120/240 × 100 = 50

64.   **Answer: C**
3x - 2x = 30
x = 30
A alone complete the work = 3 × 30 = 90 days
B alone complete the work = 2 × 30 = 60 days
C alone complete the work = 60 × 3/4 = 45 days
A, B and C together to complete the work = 1/90 + 1/60 + 1/45 = 2/180 + 3/180 + 4/180 = 9/180 = 1/20 = 20 days

65.   **Answer: A**
Let the length of the rectangle = 'x' m
And the breadth of the rectangle = (x – 22)m
The circumference of the semicircle = 22/7 × r + 2 × r = 108 m
22r + 14r = 756
36r = 756
r = 756/36
r = 21 m
The area of the semicircle = 22/7 × 21 × 21/2 = 693 m^2
The area of the rectangle = 693 × 8/11 = 504 m^2
x × (x – 22) = 504
x^2 – 22x – 504 = 0
x^2 – 36x + 14x – 504 = 0
x(x – 36) + 14(x – 36) = 0
x = + 36, - 14
The length of the rectangle = 36 m

Reasoning Aptitude

Answer (66-70): the final arrangement
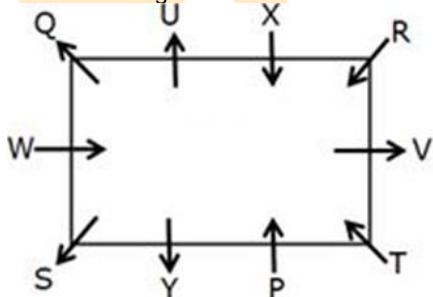
66.   **Answer: C**
67.   **Answer: A**
68.   **Answer: C** (Both the persons are facing opposite directions, except option c)
69.   **Answer: B**
70.   **Answer: B**

Answer (71-73):
L > N > M > O (400) > P > Q
71.   **Answer: D**
72.   **Answer: B**
73.   **Answer: C**

Answer (74-78): the final arrangement

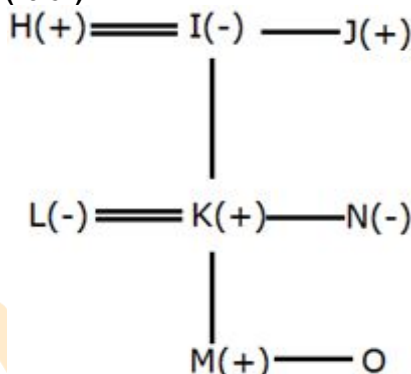| Name |
|------|
| Q |
| L |
| R |
| M |
| S |
| N |
| T |
| O |
| U |
| P |
| V |

74.   **Answer: C**
75.   **Answer: B**
76.   **Answer: A** (No one reached between them, except option a)
77.   **Answer: D**
78.   **Answer: A**

Answer (79-81):

79.   **Answer: B**
80.   **Answer: E**
81.   **Answer: C**

Answer (82-85):

Word	Code
Rapid	Tvk
Water	Uvm
Table	Krg
Threat	Xyz
Mobile	Abc
Application	Lmn
Rural	Opq
Central/ground	rst/uvw
Wells	Def
Dipped	Ghi
Some	Jkl

82.   **Answer: D**
83.   **Answer: A**
84.   **Answer: D**
85.   **Answer: C**

Answer (86-90): the final arrangement.

Month	Date	Plant	Soil
June	16	Sage	Silty
	25	Aster	Chalky
July	16	Cotton	Loamy
	25	Thyme	Sandy
August	16	Celery	Peaty
	25	Hosta	Clay

86.   **Answer: B**
87.   **Answer: C**
88.   **Answer: D**
89.   **Answer: E**
90.   **Answer: E**

Answer (91-95): the final arrangement

F B G D A H E C I

91.   **Answer: C**
92.   **Answer: B**
93.   **Answer: D**
94.   **Answer: E** (As many people stand to the left of the first person as to the right of the second person, except option e)
95.   **Answer: A**
96.   **Answer: D**
K ≥ Z > M ≤ V; U > M ≥ L = A; X < L ≤ O < H
Conclusions:
I. U > K: False (As U > M < Z ≤ K)
II. A < H: True (As H > O ≥ L = A)
97.   **Answer: D**

P ≤ X < Y = Z; A > B ≤ Y < U; T ≤ V > A ≥ W
Conclusions:
I. Z > B: False (As Z = Y ≥ B)
II. P < U: True (As U > Y > X ≥ P)
98.   **Answer: C**
C > D ≥ E > F; G ≤ H ≥ E ≤ J; K ≥ L > H = N
Conclusions:
I. J ≥ F: False (As J ≥ E > F)
II. K ≤ G: False (As G ≤ H < L ≤ K)
99.   **Answer: C**
Before: EDUCATION
After: A**C**DEINOTU
100.   **Answer: D**
Before: 5434782612349
After: 44**82**624
8+2 = 10

TESMUS
...keeps you ahead

टेस्ट फॉर्म नंबर	अधिकतम अंक : 100
	कुल प्रश्न : 100
	निर्धारित समय : 60 मि.

उम्मीदवारों को निर्देश

प्रश्नों को हल करने से पहले निम्नलिखित निर्देशों को ध्यान से पढ़ें।

(1) इस पुस्तिका में **100 प्रश्न** हैं, जो कि कुल **3 भागों** में विभाजित हैं।

भाग -(I)   : English Language   (30 प्रश्न)

भाग -(II) : Quantitative Aptitude   (35 प्रश्न)

भाग -(III) : Reasoning Aptitude   (35 प्रश्न)

(2) सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।

(3) प्रश्नों को हल करना प्रारम्भ करने से पहले आपको इस पुस्तिका की जांच करनी चाहिए और यह सुनिश्चित करना चाहिए कि इसमें सभी पृष्ठ उपस्थित हैं और कोई पृष्ठ कम या बदला हुआ नहीं है। अगर आपको इस पुस्तिका में कोई दोष मिलता है, तो आपको तुरंत इसे बदलना होगा।

(4) **प्रत्येक प्रश्न में नकारात्मक अंकन होता है क्योंकि प्रत्येक गलत उत्तर के लिए 0.25 अंक काट दिया जाएगा।**

(5) आपको निरीक्षक द्वारा उत्तर पुस्तिका अलग से दी जाएगी। आपको प्रश्नों को हल करना प्रारम्भ करने से पहले अपना नाम, रोल नंबर, टेस्ट नाम आईडी और/परीक्षा का नाम उत्तर-पुस्तिका पर सावधानीपूर्वक पूरा करना होगा। आपको उत्तर-पुस्तिका में निर्धारित स्थान पर / अपना हस्ताक्षर भी करना होगा। इन निर्देशों का पूरी तरह से पालन किया जाना चाहिए, जिसको न करने पर आपकी उत्तरपु-स्तिका का मूल्यांकन नहीं किया जाएगा और आपको 'शून्य 'अंक दिया जाएगा।

(6) उत्तर केवल **पेंसिल या ब्लैकब्लू बॉल पेन/** द्वारा उत्तरपुस्तिका प्रासंगिक प्रश्न संख्या के सम्बंधित गोले को पूरी तरह से ब्लैक करके - दिखाया जाना चाहिए।

(7) OMR उत्तर पुस्तिका को एक मशीन द्वारा जांचा जायेगा। यदि किसी स्थिति में उपलब्ध जानकारी, आवेदन पत्र में दी गयी जानकारी से अलग पायी गयी, तो आवेदक का आवेदन निरस्त कर दिया जायेगा।

(8) निरीक्षक की अनुमति मिलने के बाद ही कोई परीक्षा कक्ष छोड़ सकता है।

(9) उपरोक्त में से किसी भी निर्देश का अनुपालन करने में विफल उम्मीदवार को उपयुक्त कार्यवाही/जुर्माना के लिए उत्तरदायी समझा जा सकता है

(10) जितनी जल्दी हो सके उतनी जल्दी और सावधानी से प्रश्नों का उत्तर दें। कुछ सवाल कठिन हो सकते हैं और दूसरे आसान हो सकते हैं। किसी भी प्रश्न पर ज्यादा समय नहीं बिताएं।

(11) मोबाइल फोन और वायरलेस संचार उपकरण, परीक्षा कक्ष/कमरे में पूरी तरह से प्रतिबंधित हैं। कोई भी आवेदक अपने मोबाइल का या किसी वायरलेस संचार उपकरण को बंद करके भी अपने पास नहीं रख सकता। नियम का उल्लंघन करने पर आवेदक के विरूद्ध उचित कार्यवाही की जायेगी और उसका आवेदन भी निरस्त किया जा सकता है।

(12) उत्तर-पत्र पर कोई रफ काम नहीं किया जाना चाहिए।

(13) कोई भी उम्मीदवार परीक्षा पूरा होने से पहले परीक्षा कक्ष नहीं छोड़ सकता है।

परीक्षार्थी का नामः...

दिनाँकः............... परीक्षा कोड ....

अनुक्रमांकः..

जब तक आपको यह परीक्षण पुस्तिका खोलने को न कहा जाए तब तक न खोलें ।

English Language

Direction (1-5): Given below is a passage. There are some blanks given indicated by a letter. Read the passage and answer the questions that follow.

Mr. Stalin led the DMK to power in Tamil Nadu after a hiatus of 10 years. With his son also now an MLA, Mr. Stalin has taken full control of the DMK. His victory is not aided by any _____ **(D)** _____ public resentment against the AIADMK government, and therefore can be considered a positive verdict in his favor. **(B) Moreover**, the results also prove the **resilient** of Dravidian politics, **modified** to new **challenges**. Now in the Opposition, and its leadership still in a flux, the AIADMK will have to adapt to survive. There are other aspirants at play, and outgoing Chief Minister Edappadi K. Palaniswami might have to again beat off challenges from within the party to his leadership. In Kerala, the second consecutive victory of the Left Democratic Front led by the CPI(M) marks a departure from the antiincumbency verdicts since the 1980s. For Chief Minister PinarayiVijayan, the Congress, rendered aimless by its antediluvian leaders, was easy prey. But Mr. Vijayan also retained his support base through a mixture of political **(C) misunderstanding** and administrative measures. Having managed two floods and the pandemic with considerable efficiency, he also made some daring moves in social engineering that will continue to ripple. All that paid rich dividends for him, but the path ahead is going to be tougher as Kerala faces a fresh surge in COVID19 infections. Finances are also challenging for the State. Mr. Vijayan's complete command over the party has eclipsed other leaders, a situation that can turn out to be a crisis in the future. These results also hold some messages for national politics. For the Congress and its leader Rahul Gandhi, this is a _____ **(E)** _____ reminder that they have no viable politics at the moment. Mr. Gandhi spent a disproportionate amount of time and energy in Kerala. That turned out be a counterproductive strategy. The party lost Kerala and Assam, the two States it had a chance to win. Mr. Gandhi has to rethink his freelancing, footloose politics. For the BJP and its leaders, Mr. Modi and Home Minister Amit Shah, these results must be sobering. In Kerala, the party scored nil, losing the lone seat it won in 2016; in Tamil Nadu, it might even have damaged the prospects of ally AIADMK. The notion that there can be a nationalist straitjacket into which the diversity of India will fit is irresponsible. They must consider a softer pursuit of power. The Left tasted historic victory in Kerala but faces extinction in Bengal. Experiments in exclusive Muslim politics are not worthwhile, the results show. The Indian Secular Front, founded by a cleric in West Bengal hardly had any impact; in Assam, the AIUDF and Congress appear to have failed to _____ **(A)** _____ their individual tallies of 2016. The BJP might have lost more than it won, but Sunday's verdicts are no indication that a national level alternative to it is in the making. That is still some distance away in time and effort.

1. Which of the following can fit in the blank (A)?
(A) Gathered   (B) Introspection
(C) Aggregate   (D) Assimilate
(E) None of these

2. Which of the following can replace the word as mentioned in (C) if it is incorrect?
I) brilliance
II) Acumen
III) Sensitive
(A) Only I   (B) Only II and III
(C) Only II   (D) Only I and II
(E) No correction required

3. Which of the following can fit the blank (D)?
I) strident
II) harsh
III) Soft
(A) Only I   (B) Only III
(C) Only I and II   (D) Only II
(E) All are correct

4. The sentence labeled by (B) contains four words in bold. Select the word which is inappropriate.
(A) Moreover
(B) Resilient
(C) Challenges and Resilient
(D) Modified
(E) All are correct

5. Which of the following can fill the blank (E)?
I) Bright
II) Terrible
III) Grim
(A) Only I   (B) Only II and III
(C) Only I and II   (D) Only I and III
(E) All are correct

Direction (6-10): In each of the following a grammatically correct and meaningful sentence is given with four words given in bold in each. Which of the following words should replace each other to form a meaningful and grammatically correct sentence?

6. By **resolution (a)** from the vote on the UN Human Rights Council **abstaining (b)** on Sri Lanka, India has **signalled (c)** its **unwillingness (d)** to upset its neighbor.
(A) a-b   (B) a-c, b-d
(C) a-d, b-c   (D) a-b, c-d
(E) None of these

7. India does not want to be seen as ignoring Sri Lanka's **stubborn (a)** to meet the political aspirations of the Tamils or **endorsing (b)** the country's **reluctance (c)** refusal to ensure any sort of **accountability (d)** for its war time past.
(A) a-d   (B) b-c
(C) a-c   (D) a-b
(E) None of these

8. The Supreme Court **a) received** its **b) concern** that political parties could misuse crores of rupees **c) flagged** as donations through electoral bonds to bankroll **d) violent** protests or even terror.
(A) a-d   (B) b-c
(C) a-c   (D) a-b
(E) None of these

9. The Supreme Court refused to **a) allegations** in a petition **b) levelled** by former Mumbai Police to order a CBI investigation into **c) intervene** of corruption and abuse of office **d) filed** against Maharashtra Home Minister.
(A) a-c, b-d   (B) b-c
(C) a-d, b-c   (D) a-b, c-d
(E) None of these

10. The COVID19 management plan by the civic body involves home surveillance, strict **a) testing** of those who are under home quarantine and **b) speeding** up

of fever clinics, along with **c) monitoring** of persons and **d) ramping** up vaccination.

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

Direction (11-14): Two columns are given in each question and each column has three parts of a sentence. Choose the most suitable pair, which makes a grammatically correct and contextually coherent statement.

11.

Column I	Column II
A) True to form,he showed no reaction to the surprise visitor	D) as he casually flipped on the switch,flooding the room in light.
B) The current increases to a maximum as E approaches F, means of the switch H.	E) and diminishes to almost nothing when E is brought up to D; it can be completely interrupted
C) He retreated toward the bathroom just as the door opened-and just as Dean hit the light switch	F) and rolled to the floor, flooding the room in brighess.

(A) A-F, B-D, C-E　　　(B) A-E, B-D, C-F
(C) A-E, B-F, C-D　　　(D) C-F, B-E, A-D
(E) None of the above is correct match

12.

Column I	Column II
A) So also,owing to bodily and mental health and strength,we may be continually cheered	D) any but normal pupils, and my only means of conversing with them was reading their lips.
B) Of course my instructors had had no experience in teaching	E) back to normal and she finally regained control.
C) The cool damp cloth did wonders to get her own face	F) by a like but more normal and natural society,and come to know that we are never alone

(A) A-E, B-D, C-F　　　(B) A-F, B-D, C-E
(C) A-E, B-F, C-D　　　(D) C-F, B-E, A-D
(E) None of the above is correct match

13.

Column I	Column II
A) I was growing to love this town,with its simple history,	D) him than simple friendship?
B) Did he suspect that she was beginning to feel more for	E) proud of its old homes and field stone fences,telling the world it was a place worth staying
C) The soft sand in the ravine would make it simple	F) for the Indians to detect where they had emerged.

(A) A-E, B-D, C-F　　　(B) A-F, B-D, C-E
(C) A-E, B-F, C-D　　　(D) C-F, B-E, A-D
(E) None of the above is correct match

14.

Column I	Column II
F) for the Indians to detect where they had emerged.	D) irritant poison when taken internally.

Column I	Column II
B) The result is to prevent the local corrosive action of.	E) the poison and to prevent absorption of the metals
C) The salt is a corrosive	F) corrosive irritation of the throat and stomach,and at the same time cause vomiting.

(A) A-E, B-D, C-F　　　(B) A-F, B-E, C-D
(C) A-E, B-F, C-D　　　(D) C-F, B-E, A-D
(E) None of the above is correct match

Direction (15-18): Which of the following phrases (A), (B), (C) and (D) can replace the phrase in bold so as to make the statement correct grammatically and contextually. If the statement does not need any correction then mark option E as your answer.

15. The Union ministry of health and family welfare said on Wednesday that India surpassed the United States **to becoming the fastest vaccinating** country in the world.
(A) to becomes the fastest vaccinating
(B) to become the fastest vaccinating
(C) to become the faster vaccinating
(D) to become the fastest vaccination
(E) No correction required

16. Rajesh, being tired by bullying of some people because of his physical impairment, decided to give up on sports but his family **got by him** to work harder and remain calm.
(A) Egged on him
(B) Hanged around with him
(C) Embarked on him
(D) Keep over him
(E) No correction required

17. The Central Vigilance Commission (CVC) has **modified the guidelines pertaining** to the transfer and posting of officials in vigilance units of government organizations, restricting their tenure to 3 years at one place.
(A) mollify its guidelines pertaining
(B) modify its guidelines pertaining
(C) modified its guidelines pertaining
(D) been modifying its guidelines pertain
(E) No correction required

18. Protesting farmers on Tuesday blocked a BJP MP's car, **smashed its windscreen as** he tried to leave a party worker's home, police said.
(A) smashes its windscreen though
(B) smashing their windscreen as
(C) smashes its windscreen as
(D) smashing its windscreen as
(E) No correction required

Direction (19-25): Read the passage carefully and answer the questions given below it. Certain words/ phrases have been given in bold to help you locate them while answering some of the questions.

In the last year alone, India has witnessed an acceleration in the impacts of climate change. Devastating floods in Assam, Bihar, Kerala and Mumbai … **(A)** damage by cyclones Amphan and Nisarga, locust swarms and forest fires — these are warning signs that climate change has already begun to impact Indian lives and economies. Climate change is a notoriously difficult challenge to crack. Its effects are local, but the cause is global, needing all countries to get on board for action.

It is in this context that Joseph Biden's success in the US presidential elections is being celebrated by climate activists across the world. The US is the world's second-largest emitter of carbon dioxideand a major **contributor** to global warming. Without their active cooperation and commitment, the world has no hope of being able to make any progress on climate change.

In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check. The agreement commits all countries to keep global warming within 2 degrees Celsius. Even 2 degrees of global warming can lead to catastrophic effects — likethe tropical storms, floods, droughts, forest fires and locust swarms of 2020 tell us. In reality, what we need is far more **aggressive** action — but the Paris Agreement provides at least a partial pathway.

Within six months of becoming president in 2017, Donald Trump announced that the US would be pulling out of the Paris Agreement. On 4 November this year, just a day after the US presidential elections, the US formally withdrew from the agreement, making it the only country to do so.

For the first time in history, in a country where the climate change agenda has been dominated by denial, the issue made it to the national elections, pushed to the forefront by young climate activists. The Sunrise Movement, a political movement led by young Americans,was organized across the US to make climate change one of the defining issues of the 2020 US elections. Middle-school children, too young to vote, but worried about their future in a climate-impacted world, held up signs outside political rallies saying, "Youths need a Green New Deal". Sunrise supports the ambitious Green New Deal that young Democrats like Alexandria Ocasio-Cortez, RashidaTlaib and Ilhan Omar advocate. This differs from Biden's position in several critical ways. For one, the Green New Deal has an ambitious goal of making the US carbon-neutral by 2030 —emitting only as much as can be locked up in oceans and forests. That's just 10 years away. Biden says this is impossible.

He plans to make the US economy net-zero by 2050, 20 years later than the Green New Deal targets.

19. In December 2015, how many countries signed the Paris Agreement on climate change?
(A) 196   (B) 152
(C) 147   (D) 192
(E) 156

20. Which of the following statements is not true in the context of the passage?
I. Within six months of becoming president in 2019, Donald Trump announced that the US would be pulling out of the Paris Agreement.
II. In December 2015, 198 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check
III. The agreement commits all countries to keep global warming within 2 degrees Celsius.
(A) Only II   (B) Both II and III
(C) Only III   (D) Both I and II
(E) None of them is true

21. Which country is the world's second-largest emitter of carbon dioxide?
(A) India   (B) China
(C) USA   (D) UK
(E) Japan

22. Which country is the only country that withdrew from the Paris Climate Agreement?
(A) India   (B) China
(C) USA   (D) UK
(E) Japan

23. Which of the following words given in the options should come at the place marked as (A) in the above passage to make it grammatically correct and meaningful?
(A) inveterate   (B) widespread
(C) idiosyncratic   (D) proselytize
(E) persuade

24. Which of the following is synonymous with 'contributor'?
(A) conundrum   (B) donor
(C) vexed   (D) preclude
(E) hinder

25. Which of the following is antonymous with 'aggressive'?
(A) corpulence   (B) meek
(C) plumpness   (D) censurable
(E) reminisce

Direction (26-30): In each of the given questions, few words have been highlighted. One of the highlighted words may be incorrectly spelt. Identify the word that has been spelt incorrectly and mark that as your answer. If none of the highlighted words have been spelt incorrectly, mark option 'e', all are correct, as your answer.

26. The **significance** of the switching of **loyalities** of the Syro-Malabar Church needs to be **underscored** by the fact that it has been a crucial political **player** in the State right from the 1950s.
(A) Significance   (B) Loyalities
(C) Underscored   (D) Player
(E) All are correct.

27. The Maoists are now **considerably** weaker than a decade ago, with several senior leaders either dead or **incarcerated**, but their core **insurgent** force in south Bastar remains **infusion**.
(A) Considerably   (B) Incarcerated
(C) Insurgent   (D) Infusion
(E) All are correct.

28. While a military response and **recreminations** will inevitably follow the **ambush**, the civil society **plea** must not be ignored if a long-lasting solution to the conflict is to be **achieved**.
(A) Recreminations   (B) Ambush
(C) Plea   (D) Achieved
(E) All are correct.

29. It is **ironic** that it has taken a pandemic to **abolish** the significance of fair and equal **access** to the Supreme Court, or the lack **thereof**.
(A) Ironic   (B) Abolish
(C) Access   (D) Thereof
(E) All are correct.

30. Former U.S. President Donald Trump **accused** China of **unfair** trade practices and **perused** a dual policy of offering deals and **threatening** sanctions, but China continued to extend its influence.
(A) Accused   (B) Unfair
(C) Perused   (D) Threatening
(E) All are correct.

Quantitative Aptitude

निर्देश (31-35): निम्नलिखित संख्या श्रृंखला में (?) के स्थान पर क्या मान आना चाहिए?

31. 234, 251, 285, 336, ?, 489
(A) 404   (B) 376
(C) 410   (D) 415
(E) 398

32. 478, 482, 473, 498, 449, ?
(A) 530   (B) 549
(C) 593   (D) 570
(E) 513

33. 100, 121, 145, 174, ?, 255
(A) 195   (B) 210
(C) 178   (D) 182
(E) 206

34. 736, ?, 706, 666, 586, 426
(A) 746   (B) 716
(C) 726   (D) 736
(E) 756

35. ?, 315, 331, 350, 372, 397
(A) 312   (B) 305
(C) 308   (D) 310
(E) 302

निर्देश (36-40): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और प्रश्नों के उत्तर दें।

दिया गया तालिका चार्ट पांच अलग-अलग दुकानों यानी P, Q, R, S और T द्वारा बेचे गए फ्लोरल परफ्यूम की संख्या को दर्शाता है और पांच अलग-अलग दुकानों द्वारा बेचे गए फ्लोरल से वुडी परफ्यूम की संख्या का अनुपात भी दिया गया है और पांच अलग-अलग दुकानों द्वारा बेचे गए फ्लोरल और फ्रूटी परफ्यूम की संख्या के बीच का अंतर दिया गया है।
नोट: प्रत्येक दुकान में बेचे गए फ्लोरल परफ्यूम की संख्या बेचे गए फ्रूटी परफ्यूम की संख्या से अधिक है।

दुकानें	बेचे गए फ्लोरल परफ्यूम की संख्या	बेचे गए फ्लोरल से वुडी परफ्यूम की संख्या का अनुपात	बेचे गए फ्लोरल और फ्रूटी परफ्यूम की संख्या के बीच अंतर
P	440	11:9	70
Q	350	5:4	110
R	500	2:3	180
S	240	4:5	50
T	600	3:1	210

36. यदि दुकान P द्वारा नहीं बिके हुए फ्लोरल, वुडी और फ्रूटी परफ्यूम की औसत संख्या, दुकान S द्वारा बेचे गए वुडी

परफ्यूम की संख्या के बराबर है और दुकान S द्वारा नहीं बिके हुए फ्लोरल, वुडी और फ्रूटी परफ्यूम की संख्या का अनुपात 3:4:2 है, तो दुकान P द्वारा निर्मित वुडी परफ्यूम की कुल संख्या ज्ञात कीजिए? (निर्मित कुल परफ्यूम = बेचे गए कुल परफ्यूम + नहीं बिके हुए कुल परफ्यूम)
(A) 520   (B) 760
(C) 440   (D) 600
(E) इनमें से कोई नहीं

37. एकसाथ दुकान P और S द्वारा बेचे गए फ्रूटी परफ्यूम की कुल संख्या से दुकान T द्वारा बेचे गए वुडी परफ्यूम की संख्या का अनुपात ज्ञात कीजिए?
(A) 11:9   (B) 7:3
(C) 9:4   (D) 14:5
(E) इनमें से कोई नहीं

38. यदि दुकान Q द्वारा बेचे गए वुडी और फ्रूटी परफ्यूम की कुल संख्या, दुकान X की तुलना में 30% अधिक है और दुकान X द्वारा बेचे गए फ्लोरल परफ्यूम की संख्या, दुकान R द्वारा बेचे गए वुडी परफ्यूम की संख्या का 2/5 है, तो दुकान X द्वारा बेचे गए फ्लोरल, वुडी और फ्रूटी परफ्यूम की कुल संख्या ज्ञात कीजिए?
(A) 700   (B) 920
(C) 810   (D) 650
(E) इनमें से कोई नहीं

39. यदि दुकान S द्वारा बेचे गए ग्रीन परफ्यूम की संख्या, दुकान R द्वारा बेचे गए फ्रूटी परफ्यूम की संख्या का 75% है, तो दुकान S द्वारा बेचे गए वुडी, फ्रूटी और ग्रीन परफ्यूम की कुल संख्या ज्ञात कीजिए?
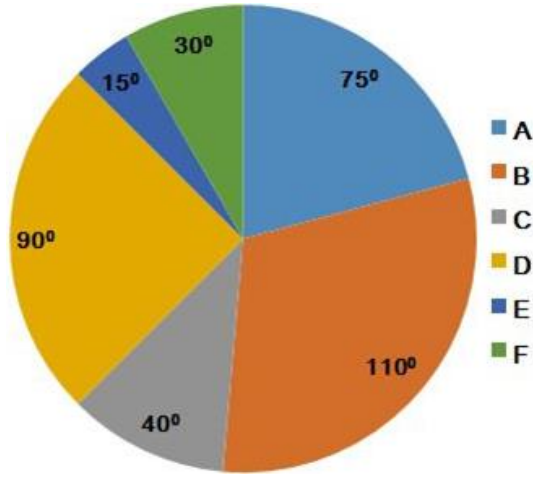(A) 250   (B) 730
(C) 510   (D) 640
(E) इनमें से कोई नहीं

40. दुकान T द्वारा बेचे गए फ्लोरल और फ्रूटी परफ्यूम की कुल संख्या, दुकान R द्वारा बेचे गए वुडी परफ्यूम की संख्या से कितने प्रतिशत अधिक है?
(A) 20%   (B) 18%
(C) 32%   (D) 25%
(E) इनमें से कोई नहीं

निर्देश (41-45): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और प्रश्नों के उत्तर दें।

दिया गया पाई चार्ट छह अलग-अलग स्कूलों यानी- A, B, C, D, E और F में छात्रों की कुल संख्या (उपस्थित + अनुपस्थित) का डिग्री वितरण दिखाता है और छह अलग-अलग स्कूलों में छात्रों की कुल संख्या 7200 है।
नोट: स्कूल A, C और D में लड़कों की संख्या का अनुपात क्रमशः 9:5:11 है। स्कूल B में लड़कों की संख्या, लड़कियों की संख्या से 400 अधिक है। स्कूल E में लड़कों की संख्या, उस स्कूल में लड़कियों की संख्या से दोगुनी है। स्कूल C में लड़कियों की संख्या 300 है।

(A) 9 घंटे   **(B)** 8 घंटे
(C) 10 घंटे   **(D)** 12 घंटे
(E) इनमें से कोई नहीं

47. एक ट्रेन x मीटर प्लेटफॉर्म को 16 सेकंड में पार करती है और वही ट्रेन 150 मीटर सुरंग को 18 सेकंड में पार करती है। यदि ट्रेन की गति 90 किमी/घंटा है, तो ट्रेन द्वारा 3x मीटर पुल को पार करने में लगने वाला समय ज्ञात कीजिए?
(A) 20 सेकंड   **(B)** 32 सेकंड
(C) 16 सेकंड   **(D)** 24 सेकंड
(E) इनमें से कोई नहीं

48. एक दुकानदार ने 9000 रुपये में 120 बोतलें खरीदीं। उसने कुछ बोतलें 20% के लाभ पर बेचीं और शेष बोतलें 60% के लाभ पर बेचीं। यदि उसे कुल मिलाकर 3150 रुपये का लाभ होता है, तो 60% के लाभ पर बेची गई बोतलों की संख्या ज्ञात कीजिए।
(A) 80   **(B)** 50
(C) 45   **(D)** 75
(E) इनमें से कोई नहीं

49. राम और सीता ने क्रमशः X रुपये और (X+1000) रुपये के निवेश के साथ एक व्यवसाय शुरू किया। 6 महीने के बाद, श्री 8000 रुपये के निवेश के साथ व्यवसाय में शामिल हो गए। यदि सीता का लाभ हिस्सा श्री से 50% अधिक है, तो राम का निवेश ज्ञात कीजिए?
(A) 5000 रुपये   **(B)** 7000 रुपये
(C) 4000 रुपये   **(D)** 6000 रुपये
(E) इनमें से कोई नहीं

50. एक बॉक्स में 13 नीली गेंदें, x हरी गेंदें और y काली गेंदें हैं। यदि एक हरी गेंद के चयन की प्रायिकता 3/10 है और एक काली गेंद के चयन की प्रायिकता 3/8 है, तो बॉक्स में हरी गेंदों से काली गेंदों की संख्या का अनुपात ज्ञात कीजिए?
(A) 1:1   **(B)** 9:7
(C) 8:3   **(D)** 4:5
(E) 2:1

निर्देश (51-55): निम्नलिखित प्रश्न में I और II के रूप में दो समीकरण हैं। आपको दोनों समीकरणों को हल करना है और उनके बीच संबंध निर्धारित करना है और उत्तर देना है,

51.   **I)** $x^2 + 8x - 105 = 0$ **II)** $y^2 + 31y + 240 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y या संबंध निर्धारित नहीं किया जा सकता है।
(D) x < y   **(E)** x ≤ y

52.   **I)** $x^2 - 2x - 99 = 0$ **II)** $y^2 + 5y - 104 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y या संबंध निर्धारित नहीं किया जा सकता है।
(D) x < y   **(E)** x ≤ y

53.   **I)** $x^2 + 21x + 108 = 0$ **II)** $2y^2 + 13y - 45 = 0$
(A) x > y   **(B)** x ≥ y

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41. यदि स्कूल A में उपस्थित लड़कों की संख्या, स्कूल A में अनुपस्थित लड़कों की संख्या से 540 अधिक है और स्कूल A में उपस्थित लड़कों से लड़कियों की संख्या 3:2 है, तो स्कूल A में अनुपस्थित छात्रों की कुल संख्या ज्ञात कीजिए?
(A) 350   **(B)** 420
(C) 210   **(D)** 300
(E) इनमें से कोई नहीं

42. स्कूल B में लड़कों की संख्या और स्कूल E में लड़कियों की संख्या के बीच का अंतर ज्ञात कीजिए?
(A) 750   **(B)** 920
(C) 660   **(D)** 1200
(E) 800

43. यदि स्कूल X में छात्रों की कुल संख्या, स्कूल D में लड़कियों की संख्या से दोगुनी है और स्कूल E से X में लड़कों की संख्या 4:9 है, तो स्कूल X में लड़कियों की संख्या ज्ञात कीजिए?
(A) 680   **(B)** 840
(C) 950   **(D)** 710
(E) इनमें से कोई नहीं

44. यदि स्कूल F में लड़कों से लड़कियों की संख्या का अनुपात 3:1 है, तो स्कूल F में लड़कों की संख्या, स्कूल C में लड़कों की संख्या से कितने प्रतिशत कम है?
(A) 32%   **(B)** 25%
(C) 60%   **(D)** 45%
(E) 10%

45. स्कूल B और C में लड़कियों की कुल संख्या में से 70% और 55% छात्र उपस्थित हैं। स्कूल B और C में अनुपस्थित लड़कियों की संख्या के बीच का अंतर ज्ञात कीजिए?
(A) 135   **(B)** 190
(C) 150   **(D)** 115
(E) इनमें से कोई नहीं

46. स्थिर जल में नाव की गति धारा की गति से तीन गुना अधिक है और नाव धारा के प्रतिकूल 324 किमी की दूरी 12 घंटे में तय करती है, तो नाव द्वारा स्थिर जल में 180 किमी और धारा के अनुकूल 135 किमी की दूरी तय करने में लगने वाले समय का योग ज्ञात कीजिए?

(C) x = y या संबंध निर्धारित नहीं किया जा सकता है।
(D) x < y   **(E)** x ≤ y

54. **I)** $x^2 + 50x + 600 = 0$ **II)** $y^2 + 33y + 270 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y या संबंध निर्धारित नहीं किया जा सकता है।
(D) x < y   **(E)** x ≤ y

55. **I)** $x^2 - 25x + 150 = 0$ **II)** $y^2 + 19y + 84 = 0$
(A) x > y   **(B)** x ≥ y
(C) x = y या संबंध निर्धारित नहीं किया जा सकता है।
(D) x < y   **(E)** x ≤ y

निर्देश (56-60): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और प्रश्नों के उत्तर दें।

दिया गया लाइन ग्राफ पांच अलग-अलग कंपनियों अर्थात A, B, C, D और E द्वारा निर्मित कारों (सफेद और लाल) की कुल संख्या को दर्शाता है और पांच अलग-अलग दुकानों द्वारा निर्मित सफेद कारों की संख्या का प्रतिशत भी दिया गया है।

— The total number of cars manufactured (in tens)
— % of the number of white cars manufactured
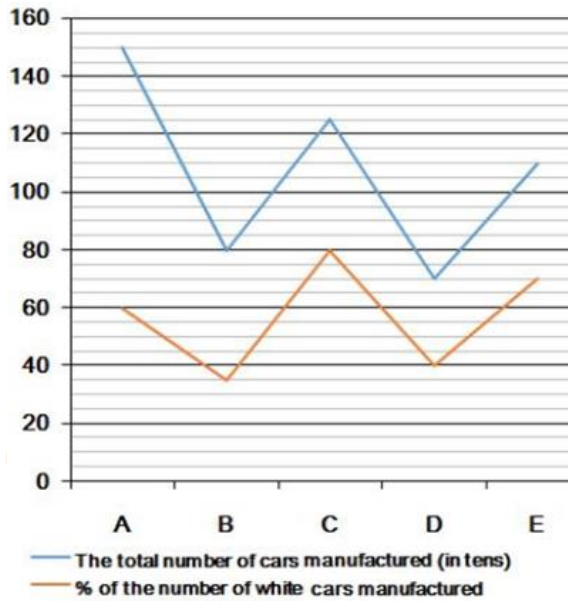
56. यदि कंपनी B से F द्वारा निर्मित सफेद कारों की संख्या का अनुपात 7:8 है और कंपनी B और F द्वारा निर्मित लाल कारों की औसत संख्या 450 है, तो कंपनी F द्वारा निर्मित कारों की कुल संख्या ज्ञात कीजिए?
(A) 520   **(B)** 700
(C) 640   **(D)** 950
(E) इनमें से कोई नहीं

57. कंपनियों A और C द्वारा निर्मित लाल कारों की संख्या में से 25% और 32% कारें क्षतिग्रस्त हैं। कंपनियों A और C द्वारा निर्मित क्षतिग्रस्त लाल कारों की संख्या के बीच का अंतर ज्ञात कीजिए?
(A) 70   **(B)** 50
(C) 110   **(D)** 90
(E) 60

58. कंपनी A द्वारा निर्मित सफेद कारों की संख्या, एक साथ कंपनी C और E द्वारा निर्मित लाल कारों की कुल संख्या से कितनी अधिक है?
(A) 190   **(B)** 450
(C) 320   **(D)** 210
(E) इनमें से कोई नहीं

59. यदि कंपनी C द्वारा नहीं बिकी हुई कारों की कुल संख्या, कंपनी E द्वारा निर्मित लाल कारों की संख्या से 120 अधिक है और कंपनी C द्वारा बेची गई सफेद कारों की संख्या, लाल कारों की संख्या से 400 अधिक है, तो कंपनी C द्वारा नहीं बिकी हुई सफेद कारों की संख्या ज्ञात कीजिये?
(A) 270   **(B)** 340
(C) 520   **(D)** 400
(E) इनमें से कोई नहीं

60. एक साथ कंपनी D और E द्वारा निर्मित सफेद कारों की संख्या, कंपनी A द्वारा निर्मित कारों की कुल संख्या का कितना प्रतिशत है?
(A) 45%   **(B)** 30%
(C) 70%   **(D)** 52%
(E) इनमें से कोई नहीं

61. P रुपये पर 3 साल के लिए 12% प्रति वर्ष की दर से प्राप्त साधारण ब्याज 2 साल के लिए 20% प्रति वर्ष की दर से 4000 रुपये पर प्राप्त चक्रवृद्धि ब्याज से 40 रुपये अधिक है। P का मान ज्ञात कीजिए?
(A) 5000 रुपये   **(B)** 4400 रुपये
(C) 3600 रुपये   **(D)** 9000 रुपये
(E) इनमें से कोई नहीं

62. एक बर्तन में 280 लीटर दूध और पानी का मिश्रण है। यदि मिश्रण में 120 लीटर दूध और 200 लीटर पानी मिला दिया जाए, तो दूध की मात्रा पानी की मात्रा से 14.28% अधिक है। बर्तन में दूध की प्रारंभिक मात्रा ज्ञात कीजिये?
(A) 175 लीटर   **(B)** 200 लीटर
(C) 180 लीटर   **(D)** 210 लीटर
(E) 160 लीटर

63. स्कूल A में छात्रों की संख्या, स्कूल B से 25% अधिक है और स्कूल C में छात्रों की संख्या, स्कूल A से 60 अधिक है। स्कूल C में छात्रों की संख्या, स्कूल B से X% अधिक है। यदि एकसाथ स्कूल B और C में छात्रों की कुल संख्या 600 है, तो X का मान ज्ञात कीजिए?
(A) 50   **(B)** 10
(C) 25   **(D)** 30
(E) 20

64. A, B और C की दक्षता का अनुपात क्रमशः 2:3:4 है और A द्वारा कार्य को पूरा करने में लिया गया समय B की तुलना में 30 दिन अधिक है। एक साथ A, B और C द्वारा कार्य पूरा करने के लिए लिया गया समय ज्ञात कीजिए?
(A) 48 दिन   **(B)** 36 दिन
(C) 20 दिन   **(D)** 60 दिन
(E) 32 दिन

65. आयत के क्षेत्रफल से अर्धवृत्त के क्षेत्रफल का अनुपात 8:11 है और अर्धवृत्त की परिधि 108 मीटर है। आयत की लंबाई ज्ञात कीजिए यदि आयत की लंबाई उसकी चौड़ाई से 22 मीटर अधिक है?

(A) 36 मीटर   (B) 20 मीटर
(C) 45 मीटर   (D) 27 मीटर
(E) 32 मीटर

Reasoning Aptitude

निर्देश (66-70): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

दस व्यक्ति P, Q, R, S, T, U, V, W, X और Y एक आयताकार मेज़ के चारों ओर इस प्रकार बैठे हैं कि प्रत्येक कोने पर एक व्यक्ति बैठा है, प्रत्येक छोटी भुजा पर एक व्यक्ति बैठा है और मेज़ की प्रत्येक लंबी भुजा पर दो व्यक्ति बैठे हैं। उनमें से पांच का मुख अंदर की ओर है और उनमें से पांच का मुख बाहर की ओर है। दो से अधिक आसन्न व्यक्ति समान दिशा की ओर उन्मुख नहीं हैं।
R, U के दायें से दूसरे स्थान पर बैठा है जो मेज़ के कोने में नहीं बैठा है। R, जो मेज़ के कोने में बैठा है, U के समान दिशा की ओर उन्मुख नहीं है। R और P के मध्य केवल दो व्यक्ति बैठे हैं, जो U के आसन्न नहीं बैठा है। P, S के बायें से दूसरे स्थान पर बैठा है। W, S के तत्काल दायें बैठा है। W और X के मध्य केवल दो व्यक्ति बैठे हैं जहां उन दोनों का मुख समान दिशा की ओर है। X और S एक दूसरे के विपरीत दिशा की ओर उन्मुख हैं। Y, T के बाएं से दूसरे स्थान पर बैठा है जो V के आसन्न बैठा है। Q और Y मेज़ के बाहर की ओर उन्मुख हैं। Y, P के तत्काल दायें नहीं बैठा है।

66. निम्नलिखित में से कौन सा व्यक्ति V के दायें से तीसरे स्थान पर बैठे व्यक्ति के आसन्न बैठा है?
(A) वह व्यक्ति जो U के दायें से दूसरे स्थान पर बैठा है
(B) V
(C) वह व्यक्ति जो T के तत्काल बायें बैठा है
(D) X
(E) इनमें से कोई नहीं

67. अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?
(A) U, Y के दायें से चौथे स्थान पर बैठा है
(B) R, V के तत्काल दायें बैठा है
(C) T, S के आसन्न बैठा है
(D) सभी सत्य हैं
(E) इनमें से कोई नहीं

68. दी गई व्यवस्था के अनुसार निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह एक खोजें जो उस समूह से संबंधित नहीं है।
(A) T-U   (B) S-R
(C) V-Y   (D) X-Y
(E) W-U

69. निम्नलिखित में से कौन W के दायें से पांचवें स्थान पर बैठा है?
(A) T
(B) वह व्यक्ति जो U के दायें से तीसरे स्थान पर बैठा है
(C) P
(D) वह व्यक्ति जो Q के बायें से तीसरे स्थान पर बैठा है
(E) इनमें से कोई नहीं

70. T के बायें से गिनने पर S और T के मध्य कितने व्यक्ति बैठे हैं?
(A) तीन   (B) दो
(C) चार   (D) एक
(E) इनमें से कोई नहीं

निर्देश (71-73): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

छह शहरों L, M, N, O, P और Q ने एक दिन में अलग-अलग कोविड मामले दर्ज किए।
शहर M ने शहर O से अधिक मामले दर्ज किए, जिसने शहर P से अधिक मामले दर्ज किए। शहर Q ने शहरों L और P की तुलना में कम मामले दर्ज किए। शहर N ने शहर M से अधिक मामले दर्ज किए। शहर N ने सबसे अधिक मामले दर्ज नहीं किए। शहर O द्वारा दर्ज किए गए मामलों की संख्या 400 है।

71. निम्नलिखित में से किस शहर ने दूसरे सबसे अधिक कोविड मामले दर्ज किए?
(A) Q   (B) M
(C) L   (D) N
(E) इनमें से कोई नहीं

72. यदि शहर N द्वारा दर्ज किए गए कोविड मामले 600 हैं, तो शहर M द्वारा दर्ज किए गए कोविड के मामले क्या हो सकते हैं?
(A) 550   (B) या तो (A) या (D)
(C) 350   (D) 595
(E) 300

73. यदि शहरों P और O द्वारा दर्ज किए गए कोविड मामलों का योग 700 है और शहरों O और Q द्वारा दर्ज किए गए कोविड मामलों का योग 500 है, तो शहरों P और Q द्वारा दर्ज किए गए कोविड मामलों का योग क्या है?
(A) 350   (B) 300
(C) 400   (D) 450
(E) 500

निर्देश (74-78): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

ग्यारह व्यक्ति L, M, N, O, P, Q, R, S, T, U और V एक के बाद एक हवाई अड्डे पर पहुंचे लेकिन आवश्यक नहीं इसी क्रम में हो।
R और N के बीच केवल दो व्यक्ति हवाई अड्डे पर पहुंचे, जो O से दो व्यक्ति पहले हवाई अड्डे पर पहुंचा। O और S के बीच केवल दो व्यक्ति हवाई अड्डे पर पहुंचे, जो N से पहले हवाई अड्डे पर पहुंचा। जितने व्यक्ति S और R के

बीच हवाई अड्डे पर पहुंचे उतने ही व्यक्ति O और P के बीच हवाई अड्डे पर पहुंचे। P और M के बीच केवल पांच व्यक्ति हवाई अड्डे पर पहुंचे जो Q के तीन व्यक्ति बाद हवाई अड्डे पर पहुंचा। जितने व्यक्ति Q से पहले हवाई अड्डे पर पहुंचे उतने ही व्यक्ति V के बाद पहुंचे। V और T के मध्य केवल तीन व्यक्ति हवाई अड्डे पर पहुंचे। L, N से पहले हवाई अड्डे पर पहुंचा।

74. निम्नलिखित में से कौन सा व्यक्ति L के चार व्यक्ति बाद हवाई अड्डे पर पहुंचा?
(A) वह व्यक्ति जो S से तत्काल पहले हवाई अड्डे पर पहुंचा
(B) U
(C) वह व्यक्ति जो P से चार व्यक्ति पहले हवाई अड्डे पर पहुंचा
(D) V
(E) इनमें से कोई नहीं

75. M और U के बीच कितने व्यक्ति हवाई अड्डे पर पहुंचे?
(A) तीन
(B) जितने व्यक्ति T के बाद एयरपोर्ट पहुंचे
(C) पांच
(D) जितने व्यक्ति Q से पहले हवाई अड्डे पर पहुंचे
(E) इनमें से कोई नहीं

76. दी गई व्यवस्था के अनुसार निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह एक खोजें जो उस समूह से संबंधित नहीं है।
(A) L-M
(B) S-N
(C) O-U
(D) Q-L
(E) N-T

77. यदि सभी व्यक्ति अंग्रेजी वर्णमाला के क्रम में हवाई अड्डे पर पहुँचे, तो कितने व्यक्ति अपने स्थान पर अपरिवर्तित रहते हैं?
(A) चार
(B) तीन
(C) पांच
(D) एक
(E) इनमें से कोई नहीं

78. अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?
(A) P, N के चार व्यक्ति बाद हवाई अड्डे पर पहुंचा
(B) L, Q से तत्काल पहले हवाई अड्डे पर पहुंचा
(C) U, R से पहले हवाई अड्डे पर पहुंचा
(D) सभी सत्य हैं
(E) इनमें से कोई नहीं

निर्देश (79-81): प्रश्नों के उत्तर देने के लिए निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें

एक ही परिवार के आठ लोग हैं। K, J का भतीजा/भांजा है जो H का इकलौता साला/जीजा है। H का कोई भाई-बहन नहीं है। M, I का पोता है जो L की सास है। L, N की इकलौती भाभी/ननद है, जो H की पुत्री है। N केवल दो व्यक्तियों की चाची/मामी है। O परिवार के व्यक्तियों में से एक है।

79. यदि S, L का दामाद है, तो O, S से किस प्रकार संबंधित है?
(A) पोती
(B) पत्नी
(C) बेटा
(D) बेटी
(E) निर्धारित नहीं किया जा सकता

80. परिवार में कितनी महिला सदस्य हैं?
(A) पांच
(B) छह
(C) चार
(D) तीन
(E) निर्धारित नहीं किया जा सकता

81. यदि J, A से विवाहित है, तो A, I से किस प्रकार संबंधित है?
(A) भतीजा/भांजा
(B) भतीजी/भांजी
(C) भाभी/ननद
(D) बहू
(E) इनमें से कोई नहीं

निर्देश (82-85): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

एक निश्चित भाषा में,
"Rapid water table threat" को "uvm tvk xyz krg" के रूप में लिखा जाता है
"Mobile application rapid rural" को "opq abc tvk lmn" के रूप में लिखा जाता है
"Central ground water application" को "uvm rst lmn uvw" के रूप में लिखा जाता है
"Wells dipped application" को "lmn def ghi" के रूप में लिखा जाता है
"Some table wells mobile" को "krg abc def jkl" के रूप में लिखा जाता है

82. दी गई भाषा में "rural threat" वाक्यांश के लिए कोड क्या है?
(A) krg xyz
(B) xyz tvk
(C) opq tvk
(D) xyz opq
(E) निर्धारित नहीं किया जा सकता

83. यदि "rapid central" वाक्यांश के लिए कोड "rst tvk" है, तो "some ground" वाक्यांश के लिए कोड क्या होगा?
(A) uvw jkl
(B) rst jkl
(C) tvk uvw
(D) jkl tvk
(E) इनमें से कोई नहीं

84. दी गई भाषा में "dipped" शब्द के लिए कोड क्या है?
(A) rst
(B) uvw
(C) jkl
(D) ghi
(E) इनमें से कोई नहीं

85. दी गई भाषा में "table application" वाक्यांश के लिए कोड क्या है?
(A) lmn uvm
(B) krg uvm
(C) lmn krg
(D) opq krg
(E) निर्धारित नहीं किया जा सकता

निर्देश (86-90): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

छह पौधे - सेलेरी, होस्टा, एस्टर, कॉटन, थाइम और सेज एक ही वर्ष के तीन अलग-अलग महीनों- जून, जुलाई और अगस्त की 16 या 25 तारीख को लगाए जाते हैं, लेकिन जरूरी नहीं कि इसी क्रम में हों। प्रत्येक पौधे को विभिन्न प्रकार की मिट्टी जैसे चालकी, क्ले, सैंडी, पीटी, सिल्टी और लोमी में लगाया जाता है।

कॉटन को सम संख्या वाली तारीख पर लगाया जाता है। कॉटन और पीटी मिट्टी में लगाए गए पौधे के बीच केवल एक पौधा लगाया जाता है। वह पौधा जो सैंडी मिट्टी में लगाया जाता है, उसे पीटी मिट्टी में लगाए गए पौधे के तत्काल पहले लगाया जाता है। सेज उस महीने में नहीं लगाया जाता है जिसमें दिनों की संख्या विषम होती है लेकिन सिल्टी मिट्टी में लगाया जाता है। एस्टर सेज के तत्काल बाद लगाया जाता है लेकिन लोमी मिट्टी में नहीं लगाया जाता है। जितने पौधे सेलेरी से पहले लगाए जाते हैं उतने ही पौधे एस्टर के बाद भी लगाए जाते हैं। अगस्त में थाइम नहीं लगाया जाता है। होस्टा को न तो चालकी मिट्टी में और न ही लोमी मिट्टी में लगाया जाता है।

86. निम्नलिखित में से कौन सा पौधा 25 जुलाई को लगाया जाता है?
(A) होस्टा
(B) वह पौधा जो सैंडी मिट्टी में लगाया जाता है
(C) सेज
(D) वह पौधा जो चालकी मिट्टी में लगाया जाता है
(E) इनमें से कोई नहीं

87. कॉटन निम्नलिखित में से किस मिट्टी में लगाया जाता है?
(A) सिल्टी मिट्टी   (B) पीटी मिट्टी
(C) लोमी मिट्टी   (D) चालकी मिट्टी
(E) इनमें से कोई नहीं

88. सिल्टी मिट्टी में लगाए गए पौधे के बाद कितने पौधे लगाए जाते हैं?
(A) दो
(B) जितने पौधे थाइम और एस्टर के बीच लगाए गए हैं
(C) जितने पौधे सेलेरी से पहले लगाए गए हैं
(D) जितने पौधे होस्टा से पहले लगाए गए हैं
(E) कोई नहीं

89. निम्नलिखित में से किस महीने और तारीख में एस्टर लगाया जाता है?
(A) 16 जुलाई   (B) 25 अगस्त
(C) 25 जुलाई   (D) 16 अगस्त
(E) 25 जून

90. अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?
(A) थाइम को क्ले मिट्टी में लगाया जाता है
(B) एस्टर जुलाई के महीने में लगाया जाता है
(C) सेलेरी सेज के तत्काल बाद लगाई जाती है
(D) होस्टा 25 जुलाई को लगाया जाता है
(E) सेलेरी को पीटी मिट्टी में लगाया जाता है

निर्देश (91-95): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

नौ व्यक्ति A, B, C, D, E, F, G, H और I एक रेखीय पंक्ति में उत्तर की ओर मुख करके खड़े हैं लेकिन आवश्यक नहीं इसी क्रम में हों।
G और E के बीच केवल तीन व्यक्ति खड़े हैं, जहां उनमें से कोई भी पंक्ति के छोर पर नहीं खड़ा है। E, A के दायें से दूसरे स्थान पर खड़ा है। D, A के तत्काल बायें खड़ा है। D और B के बीच केवल एक व्यक्ति खड़ा है। H, B के दायें से चौथे स्थान पर खड़ा है। H और I के मध्य केवल दो व्यक्ति खड़े हैं। जितने व्यक्ति C के दायीं ओर खड़े हैं उतने ही व्यक्ति B के बायीं ओर खड़े हैं। C पंक्ति के छोर पर नहीं खड़ा है।

91. निम्नलिखित में से कौन सा व्यक्ति A के बायें से चौथे स्थान पर खड़ा है?
(A) वह व्यक्ति जो B के तत्काल दायें खड़ा है
(B) E
(C) वह व्यक्ति जो G के बाएं से दूसरे स्थान पर खड़ा है
(D) C
(E) इनमें से कोई नहीं

92. B और I के बायें से तीसरे स्थान पर खड़े व्यक्ति के बीच कितने व्यक्ति खड़े हैं?
(A) दो
(B) जितने व्यक्ति D के बायीं ओर खड़े हैं
(C) चार
(D) जितने व्यक्ति G के दायीं ओर खड़े हैं
(E) इनमें से कोई नहीं

93. यदि सभी व्यक्तियों को बाएं छोर से अंग्रेजी वर्णमाला के क्रम में खड़ा किया जाता है, तो कितने व्यक्तियों का स्थान बदल जाता है?
(A) 3   (B) 4
(C) 5   (D) 6
(E) इनमें से कोई नहीं

94. दी गई व्यवस्था के अनुसार निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह एक खोजें जो उस समूह से संबंधित नहीं है।
(A) F-I   (B) D-H
(C) G-E   (D) B-C
(E) D-A

95. अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?
(A) C, G के दायें से पांचवें स्थान पर खड़ा है
(B) D और E के बीच केवल एक व्यक्ति खड़ा है
(C) A, I के तत्काल बायें खड़ा है
(D) सभी सत्य हैं
(E) इनमें से कोई नहीं

निर्देश (96-98): निम्नलिखित प्रत्येक प्रश्न में, विभिन्न तत्वों के बीच संबंध को कथनों में और उसके बाद दो निष्कर्षों में दिखाया गया है। वह निष्कर्ष ज्ञात कीजिए जो निश्चित रूप से सत्य है।

96. **कथन:** K ≥ Z > M ≤ V; U > M ≥ L = A; X < L ≤ O < H
निष्कर्ष: I. U > K   **II.** A < H

(A) केवल निष्कर्ष I सत्य है
(B) निष्कर्ष I और II दोनों सत्य हैं
(C) न तो निष्कर्ष I और न ही II सत्य है
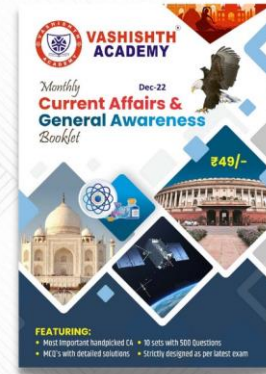**(D)** केवल निष्कर्ष II सत्य है
(E) या तो निष्कर्ष I या II सत्य है

97. **कथन:** P ≤ X < Y = Z; A > B ≤ Y < U; T ≤ V > A ≥ W
निष्कर्ष: I. Z > B **II.** P < U
(A) केवल निष्कर्ष I सत्य है
(B) निष्कर्ष I और II दोनों सत्य हैं
(C) न तो निष्कर्ष I और न ही II सत्य है
(D) केवल निष्कर्ष II सत्य है
(E) या तो निष्कर्ष I या II सत्य है

98. **कथन:** C > D ≥ E > F; G ≤ H ≥ E ≤ J; K ≥ L > H = N
निष्कर्ष: I. J ≥ F **II.** K ≤ G
(A) केवल निष्कर्ष I सत्य है
(B) निष्कर्ष I और II दोनों सत्य हैं
(C) न तो निष्कर्ष I और न ही II सत्य है
(D) केवल निष्कर्ष II सत्य है
(E) या तो निष्कर्ष I या II सत्य है

99. यदि शब्द "शिक्षा" के सभी अक्षरों को बाएं से दाएं वर्णमाला क्रम में व्यवस्थित किया जाता है, तो नवगठित शब्द के दाएं छोर से तीसरे अक्षर के बाईं ओर निम्नलिखित में से पांचवां अक्षर कौन सा है?
(A) E **(B)** A
(C) C **(D)** N
(E) इनमें से कोई नहीं

100. यदि संख्या "5434782612349" के सभी विषम अंक हटा दिए जाएं, तो नवगठित संख्या के बाएं छोर से तीसरे अंक और दाएं छोर से चौथे अंक का योग क्या होगा?
(A) 7 **(B)** 8
(C) 9 **(D)** 10
(E) इनमें से कोई नहीं

English Language

1.   **Answer: C**
The sentence already has a main verb i.e. 'failed' and therefore an infinitive has to come after it i.e. 'to + first form of verb'. Check the options. A is a participle and B is a noun and therefore eliminated. D and C are correct forms of required verb. The sentence last few words that indicate that the Congress and AIUDF have failed to match their last performance of 2016 and it means that they have failed to aggregate their numbers. Assimilate means take in and understand fully (information or ideas) and therefore illogical for the blank.

2.   **Answer: D**
Tell me something. Has Mr. Vijayan lost the election? No. Is the passage critical towards Mr. Vijayan? No. So, do you think we should use a negative sense for him? No. So the word in bold in the sentence is wrong. Brilliance and acumen which mean the ability to make good judgements are correct words for the sentence and either of them can fit. Sensitive is an adjective while we require a noun there.

3.   **Answer: C**
Take a look back at the sentence where the blank is present. The sentence is saying that Mr. Stalin did not win because public resented the present government. So, the public resentment should be qualified by a word negative in sense because resentment itself is a word in negative sense meaning resistance. Therefore Strident and Harsh both fit the blank. Soft is a word used to describe a sensitive or kind person or thing

4.   **Answer: B**
All words are correct except 'resilient'. Read carefully and you will find that the word follows 'of'. Therefore a noun should come rather than the adjective 'resilient'. 'Resilience' is the correct word.

5.   **Answer: B**
The last part of the sentence i.e. after the blank says that 'that they have no viable politics at the moment'. This means that the congress is not as competent as its rivalries. So, what kind of reminder does the situation send to congress? Worrying? Obviously yes. Therefore, both terrible and grim aptly fit the blank. Bright is opposite in meaning to the sentence.

6.   **Answer: A**
By **abstaining** from the vote on the UN Human Rights Council **resolution** on Sri Lanka, India has **signalled** its **unwillingness** to upset its neighbour.

7.   **Answer: C**
India does not want to be seen as ignoring Sri Lanka's **reluctance** to meet the political aspirations of the Tamils or **endorsing** the country's **stubborn** refusal to ensure any sort of **accountability** for its wartime past

8.   **Answer: C**
The Supreme Court **flagged** its **concern** that political parties could misuse crores of rupees **received** as donations through electoral bonds to bankroll **violent** protests or even terror

9.   **Answer: A**
The Supreme Court refused to **intervene** in a petition **filed** by former Mumbai Police to order a CBI investigation into **allegations** of corruption and abuse of office **leveled** against Maharashtra Home Minister.

10.   **Answer: B**
The COVID19 management plan by the civic body involves home surveillance, strict **monitoring** of those who are under home quarantine and **ramping** up of fever clinics, along with **testing** of persons and **speeding** up vaccination

11.   **Answer: D**

Option D is the correct combination. After connecting respective sentences,
C-F) He retreated toward the bathroom just as the door opened—and just as Dean hit the light switch and rolled to the floor, flooding the room in brightness.
B-E) The current increases to a maximum as E approaches F, means of the switch H and diminishes to almost nothing when E is brought up to D; it can be completely interrupted
A-D) True to form, he showed no reaction to the surprise visitor as he casually flipped on the switch, flooding the room in light.

12.   **Answer: B**
Option B is the correct combination. After connecting respective sentences,
A-F) So also, owing to bodily and mental health and strength, we may be continually cheered by a like but more normal and natural society, and come to know that we are never alone
B-D) Of course my instructors had had no experience in teaching any but normal pupils, and my only means of conversing with them was reading their lips.
C-E) The cool damp cloth did wonders to get her own face back to normal and she finally regained control.

13.   **Answer: A**
Option A is the correct combination, After the combination of respective sentences,
A-E) I was growing to love this town, with its simple history, proud of its old homes and field stone fences, telling the world it was a place worth staying
B-D) Did he suspect that she was beginning to feel more for him than simple friendship?
C-F) The soft sand in the ravine would make it simple for the Indians to detect where they had emerged.

14.   **Answer: B**
Option B is the correct combination, After the combination of respective sentences,
A-F) A good palliative is sweet oil; this will allay any corrosive irritation of the throat and stomach, and at the same time cause vomiting.
B-E) The result is to prevent the local corrosive action of the poison and to prevent absorption of the metals
C-D) The salt is a corrosive irritant poison when taken internally.

15.   **Answer: B**
The Union ministry of health and family welfare said on Wednesday that India surpassed the United States **to become the fastest vaccinating** country in the world.
Here, infinitive will be used- to + v1

16.   **Answer: A**
Rajesh being tired by bullying of some people because of his physical impairment, decided to give up on sports but his family **egged on him** to work harder and remain calm.
Egg on- Encourage someone to do something
Get by- survive without having the things you need or want
Keep over- cover something with
Embark on- Start or engage in something
Hang around with- stay in a place for fun

17.   **Answer: C**
The Central Vigilance Commission (CVC) has **modified its guidelines pertaining** to the transfer and posting of officials in vigilance units of government organizations, restricting their tenure to 3 years at one place.
Here, present perfect tense should be used- has + v3

18.   **Answer: D**
Protesting farmers on Tuesday blocked a BJP MP's car, **smashing its windscreen as** he tried to leave a party worker's home, police said.

Here, gerund should be used after a comma (,) - Verb + ing

19. **Answer: A**
The question can be answered by reading the following paragraph- In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check.
So option A will be the correct choice here.

20. **Answer: D**
Both statements I and II are not true. The year 2019 is wrong in I. In II, 198 is wrong. The question can be answered by reading the following paragraph. The correct statements are:-
I. Within six months of becoming president in 2017, Donald Trump announced that the US would be pulling out of the Paris Agreement.
II. In December 2015, 196 countries signed the Paris Agreement on climate change, currently our best shot to keep the worst effects of climate change in check

21. **Answer: C**
The question can be answered by reading the following paragraph- The US is the world's second-largest emitter of carbon dioxide and a major contributor to global warming.
So option C will be the correct choice here.

22. **Answer: C**
The question can be answered by reading the following paragraph- On 4 November this year, just a day after the US presidential elections, the US formally withdrew from the agreement, making it the only country to do so.
So option C will be the correct choice here.

23. **Answer: B**
In the given sentence, only 'widespread' makes it grammatically as well as contextually correct.
Option A is incorrect as inveterate means having a particular habit, activity, or interest that is long-established and unlikely to change.
Option B is correct as widespread means found or distributed over a large area or number of people which does not make any sense here.
Option C is incorrect because idiosyncratic means relating to idiosyncrasy; peculiar or individual.
Option D is incorrect because proselytize means convert or attempt to convert (someone) from one religion, belief, or opinion to another.
Option E is incorrect as persuade means to induce (someone) to do something through reasoning or argument.

24. **Answer: B**
'Donor' is synonymous with 'contributor'. 'Vexed' means (of a problem or issue) difficult and muchdebated; problematic. 'Preclude' means prevent from happening; make it impossible. So option B will be the correct choice here.

25. **Answer: B**
'Meek' means quiet, gentle, and easily imposed on; submissive. So it is antonymous with 'aggressive'. 'Corpulence' means the state of being fat; obesity. So option B will be the correct choice here.

26. **Answer: B**
Among the given highlighted words, 'Loyalities' has been incorrectly spelt.
'Loyalties- a strong feeling of support or allegiance' should be the correct word.

27. **Answer: D**
Among the given highlighted words, 'infusion' will be replaced by 'intact'.
Infusion (noun) - the introduction of a new element or quality into something
Intact (adjective) - untouched especially by anything that harms or diminishes.

28. **Answer: A**
Among the given highlighted words, 'recreminations' has been incorrectly spelt.
'Recriminations- An accusation in response to one from someone else' should be the correct usage

29. **Answer: B**
Among the given highlighted words, 'Abolish' will be replaced by 'Acknowledge'.
Abolish- formally put an end to (a system, practice, or institution).
Acknowledge- recognize the importance or quality of.

30. **Answer: C**
Among the given highlighted words, 'Perused' will be replaced by 'Pursued'.
Perused - read (something), typically in a thorough or careful way.
Pursued - follow or chase (someone or something).

Quantitative Aptitude

31. **Answer: A**
$234 + 17 \times 1 = 251$
$251 + 17 \times 2 = 285$
$285 + 17 \times 3 = 336$
$336 + 17 \times 4 = \mathbf{404}$
$404 + 17 \times 5 = 489$

32. **Answer: D**
$478 + 2^2 = 482$
$482 - 3^2 = 473$
$473 + 5^2 = 498$
$498 - 7^2 = 449$
$449 + 11^2 = \mathbf{570}$

33. **Answer: B**

100	121	145	174	**210**	255
	21	24	29	36	45
		3	5	7	9

34. **Answer: C**
$736 - 10 = \mathbf{726}$
$726 - 20 = 706$
$706 - 40 = 666$
$666 - 80 = 586$
$586 - 160 = 426$

35. **Answer: E**
$\mathbf{302} + 13 = 315$
$315 + 16 = 331$
$331 + 19 = 350$
$350 + 22 = 372$
$372 + 25 = 397$

Answer (36-40): दुकान: P
बेचे गए वुडी परफ्यूम की संख्या = 440 × 9/11 = 360
बेचे गए फ्रूटी परफ्यूम की संख्या = 440 - 70 = 370
दुकान: Q
बेचे गए वुडी परफ्यूम की संख्या = 350 × 4/5 = 280
बेचे गए फ्रूटी परफ्यूम की संख्या = 350 - 110 = 240
दुकान: R
बेचे गए वुडी परफ्यूम की संख्या = 500 × 3/2 = 750
बेचे गए फ्रूटी परफ्यूम की संख्या = 500 - 180 = 320
दुकान: S
बेचे गए वुडी परफ्यूम की संख्या = 240 × 5/4 = 300
बेचे गए फ्रूटी परफ्यूम की संख्या = 240 - 50 = 190
दुकान: T

बेचे गए वुडी परफ्यूम की संख्या = 600 × 1/3 = 200
बेचे गए फ्रूटी परफ्यूम की संख्या = 600 - 210 = 390

दुकानें	बेचे गए फ्लोरल परफ्यूम की संख्या	बेचे गए वुडी परफ्यूम की संख्या	बेचे गए फ्रूटी परफ्यूम की संख्या
P	440	360	370
Q	350	280	240
R	500	750	320
S	240	300	190
T	600	200	390

36. **Answer: B**
दुकान P द्वारा नहीं बिके हुए फ्लोरल, वुडी और फ्रूटी परफ्यूम की कुल संख्या = 300 × 3 = 900
दुकान P द्वारा बेचे गए वुडी परफ्यूम की संख्या = 900 × 4/(3 + 4 + 2) = 900 × 4/9 = 400
दुकान P द्वारा निर्मित वुडी परफ्यूम की कुल संख्या = 360 + 400 = 760

37. **Answer: D**
एकसाथ दुकानों P और S द्वारा बेचे गए फ्रूटी परफ्यूम की कुल संख्या = 370 + 190 = 560
आवश्यक अनुपात = 560:200 = 14:5

38. **Answer: A**
दुकान Q द्वारा बेचे गए वुडी और फ्रूटी परफ्यूम की कुल संख्या = 280 + 240 = 520
दुकान X द्वारा बेचे गए वुडी और फ्रूटी परफ्यूम की कुल संख्या = 520 × 100/130 = 400
दुकान X द्वारा बेचे गए फ्लोरल परफ्यूम की संख्या = 750 × 2/5 = 300
दुकान X द्वारा बेचे गए फ्लोरल, वुडी और फ्रूटी परफ्यूम की कुल संख्या = 400 + 300 = 700

39. **Answer: B**
दुकान S द्वारा बेचे गए ग्रीन परफ्यूम की संख्या = 320 × 75/100 = 240
दुकान S द्वारा बेचे गए ग्रीन, वुडी और फ्रूटी परफ्यूम की कुल संख्या = 300 + 190 + 240 = 730

40. **Answer: C**
दुकान T द्वारा बेचे गए फ्लोरल और फ्रूटी परफ्यूम की कुल संख्या = 600 + 390 = 990
आवश्यक प्रतिशत = (990 - 750)/750 × 100 = 240/750 × 100 = 32%

Answer (41-45): स्कूल A में छात्रों की कुल संख्या = 7200 × 75/360 = 1500
स्कूल B में छात्रों की कुल संख्या = 7200 × 110/360 = 2200
स्कूल C में छात्रों की कुल संख्या = 7200 × 40/360 = 800
स्कूल D में छात्रों की कुल संख्या = 7200 × 90/360 = 1800
स्कूल E में छात्रों की कुल संख्या = 7200 × 15/360 = 300
स्कूल F में छात्रों की कुल संख्या = 7200 × 30/360 = 600
स्कूल B में लड़कों की संख्या = (2200 + 400)/2 = 2600/2 = 1300
स्कूल B में लड़कियों की संख्या = 2200 - 1300 = 900

स्कूल E में लड़कों और लड़कियों की संख्या का अनुपात = 2:1
स्कूल E में लड़कों की संख्या = 300 × 2/(2 +1) = 300 × 2/3 = 200
स्कूल E में लड़कियों की संख्या = 300 - 200 = 100
स्कूल C में लड़कियों की संख्या = 300
स्कूल C में लड़कों की संख्या = 800 - 300 = 500
स्कूल A में लड़कों की संख्या = 500 × 9/5 = 900
स्कूल A में लड़कियों की संख्या = 1500 - 900 = 600
स्कूल D में लड़कों की संख्या = 500 × 11/5 = 1100
स्कूल D में लड़कियों की संख्या = 1800 - 1100 = 700

स्कूलों	छात्रों की कुल संख्या	लड़कों की संख्या	लड़कियों की संख्या
A	1500	900	600
B	2200	1300	900
C	800	500	300
D	1800	1100	700
E	300	200	100
F	600	-	-

41. **Answer: D**
स्कूल A में उपस्थित लड़कों की संख्या = (900 + 540)/2 = 1440/2 = 720
स्कूल A में उपस्थित लड़कियों की संख्या = 720 × 2/3 = 480
स्कूल A में अनुपस्थित छात्रों की संख्या = 1500 - (720 +480) = 1500 - 1200 = 300

42. **Answer: D**
आवश्यक अंतर = 1300 - 100 = 1200

43. **Answer: C**
स्कूल X में छात्रों की कुल संख्या = 700 × 2 = 1400
स्कूल X में लड़कों की संख्या = 200 × 9/4 = 450
स्कूल X में लड़कियों की संख्या = 1400 - 450 = 950

44. **Answer: E**
स्कूल F में लड़कों की संख्या = 600 × 3/(3 + 1) = 600 × 3/4 = 450
आवश्यक प्रतिशत = (500 - 450)/500 × 100 = 50/5 = 10%

45. **Answer: A**
स्कूल B में अनुपस्थित लड़कियों की संख्या = 900 × (100 - 70)/100 = 900 × 30/100 = 270
स्कूल C में अनुपस्थित लड़कियों की संख्या = 300 × (100 - 55)/100 = 300 × 45/100 = 135
आवश्यक अंतर = 270 - 135 = 135

46. **Answer: B**
स्थिर जल में नाव की गति से धारा की गति का अनुपात = 4x:1x
324/(4x – 1x) = 12
324/3x = 12
x = 108/12
x = 9
धारा की गति = 9 किमी/घंटा
स्थिर जल में नाव की गति = 4 × 9 = 36 किमी/घंटा
आवश्यक समय = 180/36 + 135/(36 + 9) = 5 + 135/45 = 5 + 3 = 8 घंटे

47. **Answer: D**
माना ट्रेन की लंबाई = 'a' मीटर/सेकंड

ट्रेन की गति = 90 × 5/18 = 25 मीटर/सेकंड

$a + x = 25 × 16$

$a + x = 400$ ---(1)

$a + 150 = 25 × 18$

$a = 450 – 150$

$a = 300$ ---(2)

(1) और (2) से,

$300 + x = 400$

$x = 100$

आवश्यक समय = (300 + 3 × 100)/25 = 600/25 = 24 सेकंड

48. **Answer: C**

प्रत्येक बोतल का क्रय मूल्य = 9000/120 = 75 रुपये

$x × (75 × 20/100) + (120 – x) × (75 × 60/100) = 3150$ रुपये

$x × 15 + (120 – x) × 45 = 3150$

$15x + 5400 – 45x = 3150$

$5400 – 3150 = 30x$

$x = 2250/30$

$x = 75$

60% के लाभ पर बेची गई बोतलों की संख्या = 120 - 75 = 45

49. **Answer: A**

$(X + 1000) × 12/(8000 × 6) = 150/100$

$(X + 1000)/4000 = 3/2$

$X + 1000 = 6000$

$X = 5000$

राम का निवेश = 5000 रुपये

50. **Answer: D**

बॉक्स में गेंदों की कुल संख्या = 13 + x + y

$x{C_1}/(13 + x + y){C_1} = 3/10$

$x = 3/10 × (13 + x + y)$

$x = 39/10 + 3x/10 + 3y/10$

$10x - 39 = 3x + 3y$ ---(1)

$y{C_1}/(13 + x + y){C_1} = 3/8$

$y = 3/8 × (13 + x + y)$

$y = 39/8 + 3x/8 + 3y/8$

$8y = 39 + 3x + 3y$ ---(2)

(1) और (2) से,

$8y = 39 + 10x – 39$

$10x = 8y$

$x/y = 8/10$

$x/y = 4/5$

बॉक्स में हरी गेंदों से काली गेंदों की संख्या का अनुपात = 4:5

51. **Answer: B**

$x^2 + 8x – 105 = 0$

$x^2 + 15x – 7x – 105 = 0$

$x(x + 15) – 7(x + 15) = 0$

$x = - 15, + 7$

$y^2 + 31y + 240 = 0$

$y^2 + 15y + 16y + 240 = 0$

$y(y + 15) + 16(y + 15) = 0$

$y = - 15, - 16$

अत: x ≥ y

52. **Answer: C**

$x^2 – 2x – 99 = 0$

$x^2 – 11x + 9x – 99 = 0$

$x(x – 11) + 9(x – 11) = 0$

$x = + 11, - 9$

$y^2 + 5y – 104 = 0$

$y^2 + 13y – 8y – 104 = 0$

$y(y + 13) – 8(y + 13) = 0$

$y = - 13, + 8$

संबंध निर्धारित नहीं किया जा सकता है।

53. **Answer: E**

$x^2 + 21x + 108 = 0$

$x^2 + 12x + 9x + 108 = 0$

$x(x + 12) + 9(x + 12) = 0$

$x = - 12, - 9$

$2y^2 + 13y – 45 = 0$

$2y^2 + 18y – 5y – 45 = 0$

$2y(y + 9) - 5(y + 9) = 0$

$y = - 9, + 5/2$

$y = - 9, + 2.5$

अत: x ≤ y

54. **Answer: D**

$x^2 + 50x + 600 = 0$

$x^2 + 30x + 20x + 600 = 0$

$x(x + 30) + 20(x + 30) = 0$

$x = - 30, - 20$

$y^2 + 33y + 270 = 0$

$y^2 + 18y + 15y + 270 = 0$

$y(y + 18) + 15(y + 18) = 0$

$y = - 18, - 15$

अत: x < y

55. **Answer: A**

$x^2 – 25x + 150 = 0$

$x^2 – 10x – 15x + 150 = 0$

$x(x – 10) – 15(x – 10) = 0$

$x = + 10, + 15$

$y^2 + 19y + 84 = 0$

$y^2 + 12y + 7y + 84 = 0$

$y(y + 12) + 7(y + 12) = 0$

$y = - 12, - 7$

अत: x > y

Answer (56-60): कंपनी: A

निर्मित कारों की कुल संख्या = 1500

निर्मित सफेद कारों की संख्या = 1500 × 60/100 = 900

निर्मित लाल कारों की संख्या = 1500 - 900 = 600

कंपनी: B

निर्मित कारों की कुल संख्या = 800

निर्मित सफेद कारों की संख्या = 800 × 35/100 = 280

निर्मित लाल कारों की संख्या = 800 - 280 = 520

कंपनी: C

निर्मित कारों की कुल संख्या = 1250

निर्मित सफेद कारों की संख्या = 1250 × 80/100 = 1000

निर्मित लाल कारों की संख्या = 1250 - 1000 = 250

कंपनी: D

निर्मित कारों की कुल संख्या = 700

निर्मित सफेद कारों की संख्या = 700 × 40/100 = 280

निर्मित लाल कारों की संख्या = 700 - 280 = 420

कंपनी: E

निर्मित कारों की कुल संख्या = 1100
निर्मित सफेद कारों की संख्या = 1100 × 70/100 = 770
निर्मित लाल कारों की संख्या = 1100 - 770 = 330

कंपनियों	निर्मित कारों की कुल संख्या	निर्मित सफेद कारों की संख्या	निर्मित लाल कारों की संख्या
A	1500	900	600
B	800	280	520
C	1250	1000	250
D	700	280	420
E	1100	770	330

56. **Answer: B**
कंपनी F द्वारा निर्मित सफेद कारों की संख्या = 280 × 8/7 = 320
कंपनी F द्वारा निर्मित लाल कारों की संख्या = 450 × 2 - 520 = 900 - 520 = 380
आवश्यक योग = 320 + 380 = 700

57. **Answer: A**
कंपनी A द्वारा निर्मित क्षतिग्रस्त लाल कारों की संख्या = 600 × 25/100 = 150
कंपनी C द्वारा निर्मित क्षतिग्रस्त लाल कारों की संख्या = 250 × 32/100 = 80
आवश्यक अंतर = 150 - 80 = 70

58. **Answer: C**
एकसाथ कंपनियों C और E द्वारा निर्मित लाल कारों की संख्या = 250 + 330 = 580
आवश्यक अंतर = 900 - 580 = 320

59. **Answer: D**
कंपनी C द्वारा नहीं बिकी हुई कारों की कुल संख्या = 330 + 120 = 450
कंपनी C द्वारा बेची गई कारों की कुल संख्या = 1250 - 450 = 800
कंपनी C द्वारा बेची गई सफेद कारों की संख्या = (800 + 400)/2 = 1200/2 = 600
कंपनी C द्वारा नहीं बिकी हुई सफेद कारों की संख्या = 1000 - 600 = 400

60. **Answer: C**
एकसाथ कंपनियों D और E द्वारा निर्मित सफेद कारों की संख्या = 280 + 770 = 1050
आवश्यक प्रतिशत = 1050/1500 × 100 = 70%

61. **Answer: A**
P × 3 × 12/100 – (4000 × (1 + 20/100)^2 – 4000) = 40 रुपये
P × 36/100 – (4000 × (120/100)^2 – 4000) = 40 रुपये
P × 36/100 – 5760 + 4000 = 40
P × 36/100 = 40 + 1760
P = 1800 × 100/36
P = 5000 रुपये

62. **Answer: B**
माना दूध की प्रारंभिक मात्रा = x लीटर
और पानी की प्रारंभिक मात्रा = (280 - x) लीटर
अंतिम मिश्रण में दूध से पानी की मात्रा का अनुपात = 114.28:100 = 8:7
(x + 120)/(280 – x + 200) = 8/7

7x + 840 = 480 × 8 – 8x
15x = 3840 – 840
x = 3000/15
x = 200
बर्तन में दूध की प्रारंभिक मात्रा = 200 लीटर

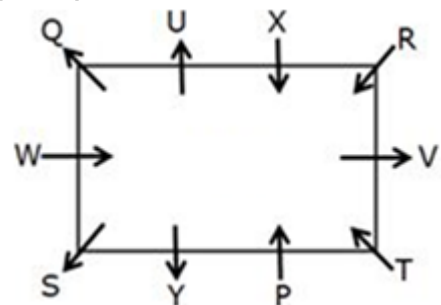**63.** **Answer: A**
माना स्कूल B में छात्रों की संख्या = 4a
तथा स्कूल A में छात्रों की संख्या = 4a × 125/100 = 5a
4a + 5a + 60 = 600
9a = 540
a = 60
स्कूल B में छात्रों की संख्या = 4 × 60 = 240
स्कूल C में छात्रों की संख्या = 300 + 60 = 360
X = (360 - 240)/240 × 100 = 120/240 × 100 = 50

64. **Answer: C**
3x - 2x = 30
x = 30
अकेला A कार्य पूरा करता है = 3 × 30 = 90 दिन
अकेला B कार्य पूरा करता है = 2 × 30 = 60 दिन
अकेला C कार्य पूरा करता है = 60 × 3/4 = 45 दिन
एकसाथ A, B और C कार्य पूरा करेंगे = 1/90 + 1/60 + 1/45 = 2/180 + 3/180 + 4/180 = 9/180 = 1/20 = 20 दिन

65. **Answer: A**
माना आयत की लंबाई = 'x' मीटर
तथा आयत की चौड़ाई = (x - 22) मीटर
अर्धवृत्त की परिधि = 22/7 × r + 2 × r = 108 मीटर
22r + 14r = 756
36r = 756
r = 756/36
r = 21 मीटर
अर्धवृत्त का क्षेत्रफल = 22/7 × 21 × 21/2 = 693 मीटर^2
आयत का क्षेत्रफल = 693 × 8/11 = 504 मीटर^2
x × (x – 22) = 504
x^2 – 22x – 504 = 0
x^2 – 36x + 14x – 504 = 0
x(x – 36) + 14(x – 36) = 0
x = + 36, - 14
आयत की लंबाई = 36 मीटर

Reasoning Aptitude

Answer (66-70): अंतिम व्यवस्था –

66. **Answer: C**
67. **Answer: A**
68. **Answer: C** (विकल्प C को छोड़कर दोनों व्यक्ति विपरीत दिशाओं का सामना कर रहे हैं)
69. **Answer: B**

70. **Answer: B**

Answer (71-73):
L > N > M > O (400) > P > Q

71. **Answer: D**
72. **Answer: B**
73. **Answer: C**

Answer (74-78): अंतिम व्यवस्था -

नाम
Q
L
R
M
S
N
T
O
U
P
V

74. **Answer: C**
75. **Answer: B**
76. **Answer: A** (विकल्प A को छोड़कर उनके बीच कोई नहीं पहुंचा)
77. **Answer: D**
78. **Answer: A**

Answer (79-81):

H(+) ═══ I(-) ─── J(+)

L(-) ═══ K(+) ─── N(-)

M(+) ─── O
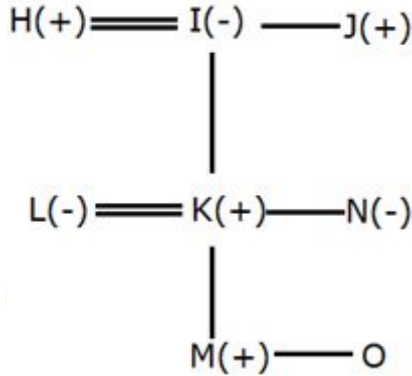
79. **Answer: B**
80. **Answer: E**
81. **Answer: C**

Answer (82-85):

शब्द	कोड
Rapid	Tvk
Water	Uvm
Table	Krg
Threat	Xyz
Mobile	Abc
Application	Lmn
Rural	Opq
Central/ground	rst/uvw
Wells	Def
Dipped	Ghi
Some	Jkl

82. **Answer: D**
83. **Answer: A**
84. **Answer: D**

85. **Answer: C**

Answer (86-90): अंतिम व्यवस्था -

महीना	दिनांक	पौधा	मिट्टी
जून	16	सेज	सिल्टी
	25	एस्टर	चालकी
जुलाई	16	कॉटन	लोमी
	25	एस्टर	सैंडी
अगस्त	16	सेलेरी	पीटी
	25	होस्टा	क्ले

86. **Answer: B**
87. **Answer: C**
88. **Answer: D**
89. **Answer: E**
90. **Answer: E**

Answer (91-95): अंतिम व्यवस्था -

F   B   G   D   A   H   E   C   I
↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑   ↑
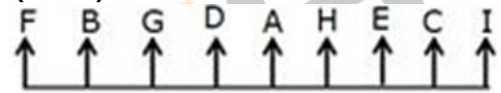
91. **Answer: C**
92. **Answer: B**
93. **Answer: D**
94. **Answer: E** (विकल्प E को छोड़कर, जितने व्यक्ति पहले व्यक्ति के बाईं ओर खड़े हैं, उतने ही व्यक्ति दूसरे व्यक्ति के दाईं ओर खड़े हैं)
95. **Answer: A**
96. **Answer: D**
K ≥ Z > M ≤ V; U > M ≥ L = A; X < L ≤ O < H
निष्कर्ष:
I.U > K: असत्य (क्यूंकि U > M < Z ≤ K)
II.A < H: सत्य (क्यूंकि H > O ≥ L = A)
97. **Answer: D**
P ≤ X < Y = Z; A > B ≤ Y < U; T ≤ V > A ≥ W
निष्कर्ष:
I.Z > B: असत्य (क्यूंकि Z = Y ≥ B)
II.P < U: सत्य (क्यूंकि U > Y > X ≥ P)
98. **Answer: C**
C > D ≥ E > F; G ≤ H ≥ E ≤ J; K ≥ L > H = N
निष्कर्ष:
I.J ≥ F: असत्य (क्यूंकि J ≥ E > F)
II.K ≤ G: असत्य (क्यूंकि G ≤ H < L ≤ K)
99. **Answer: C**
पहले: EDUCATION
बाद में: ACDEINOTU
100. **Answer: D**
पहले: 5434782612349
बाद में: 44**82**624
8+2=10