English Language

Directions (1-6): Read the following passage carefully & Answer the following questions. In the paragraph, some of the words highlighted so as per questions asked below words should be replaced to form a meaningful sentence.

It seems *incomprehensible* that even at the height of the crisis of the Covid-19lockdown, when the shutdown of livelihoods created a vast and acute crisis of hungerfor millions of migrants and informal workers, government policy was concerned withthe establishment of proper procedure for the identification of beneficiaries for distribution. For any relief that needed to be *provided(A)* sooner, government policy *delivered(B)* either the parcel of relief was small enough, such as one meal, for there not to be a *misallocation(C)* issue, or it was *preferred(D)* by non-State actors without direct involvement of government funds and materials. Could the Indian government simply have 'universalized' rations through its Public Distribution System (PDS), and made it accessible to all? It was pointed out that government godowns had adequate stocks of food grain to make this feasible. But for reasons that were never articulated, this option was never seriously considered. Instead, the state governments (for in India's federal framework, this task was left largely to them) tried to extend the reach of the PDS delivery mechanism by devising new procedures to add temporary beneficiaries. They also tried, at least in some cases, to deliver emergency relief outside of the PDS framework through food kitchens and dry ration kits.

Research that covers the states of Kerala, Delhi, Bihar, Madhya Pradesh and Haryanalooks at what governments did in response to this crisis. In particular, what did thesestates do to respond to the needs of vulnerable people who were 'at the margins ofgovernment welfare' – people who were either ineligible or erroneously excluded fromthe PDS? The scale of response, and the strategies varied across states, but all of the responses were structured by a common framework of rules (both written and unwritten) that set *the broad _____ of* administrative policy and decision-making for the Indian State. This was, however, less of a constraint in some states than in others.

In theory, rules and procedures are needed to limit the scope of administrative power that is available to unelected officials. This doesn't, of course, mean that Indian states somewhat entirely lawless, but rather that its official form needs a nominal outline of rules. When applied to the question of the identification of beneficiaries for welfare schemes, The advantage (in normal times) for a neutral, precise and rule-bound framework for selecting recipients of government welfare is that It protects the public against the *arbitrary* and non-accountable state, as also against stigma,

discrimination and moral judgment by officials. This is however, only, justifiable if there is balance between rules and discretion, and if there is some room for discretionary allocations to be made in times of crisis.

1) Which of the following statements are not true based on the passage given?

I.Government policy was concerned with the establishment of proper procedure for the identification of beneficiaries for the distribution.

II. Government godowns had adequate stocks of food grain to make universalized ration feasible.

III. all of the responses were structured by a common framework of rules (both written and unwritten) that set the broad contours of administrative policy and decision-making for the Indian State

IV.in theory, rules and procedures are needed to limit the scope of administrative power that is available to unelected officials

A.Only I & III

B.Only II & IV

C.Only I & IV

D.Only II & III

E.All of these

2) According to the author, what did state governments do to combat the acute crisis of hunger for millions of migrants and informal workers?

A.Tried to extend the reach of the PDS delivery mechanism by devising new procedures to add temporary beneficiaries.

B.Making universal ration system.

C.The establishment of proper procedure for the identification of beneficiaries for distribution.

D.Both A and C

E.Both B and C

3) Which of the following can fit in the blank?

A.Extensive

B.Homage

C.Contours

D.Ponder

E.Spawn

4) Which of the following is synonymous with "arbitrary"?

A.Sheer

B.Random

C.Turbulent

D.Inception

E.Confined

5) Which of the following is synonymous with 'incomprehensible'?

A.Errant

B.Pontificate

C.Deliberate

D.Inarticulate

E.Utter

6) In first paragraph some of the words may or may not be placed appropriatelyso Which of the following combination matches to form a meaningful sentence in a paragraph?

A.AC

B.BD

C.AB

D.BC

E.No replacement required

Directions (7-11): In the following question, 2 parts of the sentence may have an error. Find out which 2 parts of the sentence have an error and select the appropriate option. If the sentence is free from error select no error as your answer.

7) Dutch botanists identified the (A)/ pathogen responsible as a (B)/ micro fungus carry by bark beetles (C)/ that breeds in mature elms. (D)

A.AD

B.CD

C.BC

D.AC

E.No error

8) The correlations among depression and smartphone use (A)/ are strong enough to suggest that (B)/ much parents should be telling their kids (C)/ to put down their phone. (D)

A.AD

B.CD

C.BC

D.AC

E.No error

9) While global travel restrictions due to the COVID-19 pandemic has dealt a several

blow (A)/ to the country's tourism sector, an important driver for its economy (B)/ the Bhutanese Government has respond (C)/ by providing allowances or alternate jobs for those affected (D).

A.AD

B.CD

C.BC

D.AC

E.No error

10) Although on the first front, our healthcare professionals (A)/ going to work every day needs to be (B)/ provided with protective gear on the second, because of the lockdown and economic (C)/ crisis migrants do not have food to eat (D).

A.AC

B.BC

C.BD

D.AB

E.No error

11) The statement added that (A)/ although there were a number of different views (B)/ these would be discussed about by both sides in (C)/ the meeting scheduled on this Friday. (D)

A.AC

B.BC

C.BD

D.AB

E.No error

Directions (12-15): In the following question usage of a word based on meaning is given, you have to find the wrong usage of a word both grammatically & contextually and mark it as your answer and if all are found to be correct then mark all correct as answer.

12) Pernicious

A. Drinking and smoking can be pernicious to health.

B. Continuous use of mobile can be pernicious as it produces ultraviolet rays and may affect the eyes

C. The new version of Corona virus is pernicious as it spreads quickly and can led to immediate death

D. The Vitamin supplements he took increased his stamina and proved to be pernicious for his health.

A.Only A

B.Only B

C.Only C

D.Only D

E.Only A and B

13) Wane

A. Since sales have started to wane, Company asked for an urgent meeting to discuss policies regarding it.

B. Geeta decided to explore other career options when demand for her placement services started to wane.

C. The wane in a crime is a sad reflection on the society.

D. The actor is so popular that his popularity will never wane.

A.Only A

B.Only B

C.Only C

D.Only D

E.Only A and B

14) Faintly

A. The smell of lavender lingered faintly in the room

B. The Software should be faintly updated for smooth working and for removal of bugs

C. Baby smiled faintly comforted by presence of its mother.

D. Reena participates faintly in dance competition and in essay writing activities held in school every month.

A.Only A

B.Only B

C.Only B and C

D.Only B and D

E.Only A and B

15) Profuse

A. After taking proper diet and doing regular exercise every day the woman's body had a profuse amount of a fat on it.

B. John has gained so much weight that even his doctor is concerned about his profused growth.

C. She was rushed to hospital in middle of night as her bleeding was profuse.

D. Prashant received profused praise for his excellent performance in the examinations.

A.Only A

B.Only B

C.Only B and C

D.Only B and D

E.Only A and B

Directions (16-20): In the following questions two columns are given containing 3 sentences/ phrases each. In first column, sentences/ phrases are A, B and C and in the second column the sentences / phrases are D, e and F. A sentence / phrase from the first column may or may not connect with another sentence/ phrase from the second column to make a grammatically and contextually correct sentence. Each question has five options four of which display the sequence in which the sentence in which the sentence / phrase can be joined to form a grammatically and contextually correct sentence. If none of options forms a correct sentence after combination, Mark E i.e. none of these as your answer.

16)

COLUMN I	COLUMN II
A. The advancement of digital tools and technology in areas such as artificial intelligence has	**D.** to iron out concerns raised by trading firms, before issuing guidelines.
B. Indian users today are accessing digital technology driven services	**E.** enabled them to monitor and profile user behaviour, preferences and even daily routines, granting them the potential power to influence their decisions.
C. On the surface, the Museveni Government may have created an illusion that it has	**F.** and efficacy of the drugs, and will then require licenses to manufacture and sell.

A.A-E

B.C-D & B-F

C.A-D and B-E

D.C-F

E.None of these

17)

COLUMN I	COLUMN II
A. Global consumption of ozone depleting materials has been reduced of late	**D.** hours after he was detained in Ludhiana late on Thursday for allegedly causing wrongful loss of Rs2397 crore to Religare Finvest Ltd.
B. Food prices that surprisingly have remained benign helping slow overall CPI inflation could also start	**E.** hardening once the impact of the higher pay-out on the minimum support price for kharif crops kicks in.
C. The Delhi police's Economic Offences Wing (EOW) arrested pharmaceutical giant Ranbaxy Ltd.'s former prompter Malvinder Singh in early hours on Friday.	**F.** fostering entrepreneurship and facilitating financial environment and inclusion

A.A-F

B.B-E and C-D

C.C-D

D.A-D

E.None of these

18)

COLUMN I	COLUMN II
A. Indiabulls Group may rework its plan to exit the real estate business following the Reserve Bank of India rejection of a merger proposal of Laxmi Vilas Bank.	**D.** and Indiabulls Housing Finance Ltd., a person aware of the matter said even as it plans to turn Indiabulls Real Estate Ltd. (IBREL) debt-free work out its ownership pattern.
B. The world's 2 most populous countries China and India accounting for roughly 40%	**E.** by making IBREL debt-free and not having Sameer Gehlaut as promoter of IBREL. (Indiabulls Real Estate Ltd)
C. In September, IBREL sold its remaining stake in some of its office assets in Gurugram and central Mumbai to Blackstone for around Rs 2717 crore,	**F.** of the total population are the 2 fast growing major economies in the world.

A.A-E and C-D

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

C.A-D

D.B-F and C-E

E.None of these

19)

COLUMN I	COLUMN II
A. Amid rising coronavirus cases, the safety of students is of paramount importance.	**D.** and it was then decided that schools will not reopen immediately.
B. He started that he was asked the state education secretary and director of education to hold consultations with stakeholders.	**E.** fearing it would be impossible to maintain social distancing in schools.
C. Teachers' associations are opposed to restarting physical classes immediately.	**F.** have been asked to decide on reopening schools from October 15.

A.B-D

B.A-E and C-F

C.C-E

D.A-E, C-D

E.C-D and A-F

20)

COLUMN I	COLUMN II
A. The Federal Bureau of Investigation (FBI) and the Secret Service are investigating	**D.** decided to allow interstate movement of people without any requirement of registration with effect from 1 October
B. Since the beginning of the year there have been over 7900 wildfires	**E.** there the package came from whether others have been sent through the US postal system
C. In a welcome respite for tourists and tour operators in the region, the government in the neighbouring state of Sikkim has finally	**F.** that the burning over 3.4 million acres in California.

A.A-E and B-D

B.A-F, A-E and B-D

C.B-F

D.C-D

E.None of these

Directions (21-25): In the following passage, some of the words have been highlighted in bold. Read the passage and try to understand what it is given. Then replace the highlighted words with correct option in order to make grammatically and contextually sense. In acase the highlighted word is given correctly then mark "No improvement required" as the right answer. Cities are getting innovative with addressing the **(A) peripheral** problems of transportation, traffic, congestion, safety and pollution. In Delhi and Gurugram, there have been several **(B) precedent** developments that indicate the

authorities are looking for innovative solutions. The most debated one has been the promise of free Metro and bus rides for women in Delhi. While the pros and cons are still being assessed, there is no doubt that it is a **(C) bold** step even if a modified version is implemented. However, the real issue at hand is how we can make our cities more women friendly. Women-only spaces may be a good short-term solution, but in the long term solution, we must look at the **(d) adherent** problems in our cities such as congestion and the lack of walkable spaces. City authorities and people need to look for **(E) innovation** solutions to these different social and environment problems.

21) Which word will replace the word in (A)?

A. Perennial

B. Uniform

C. Illicit

D. Elicit

E. Tepid

22) Which word will replace the word in (B)?

A. Relative

B. recent

C. recede

D. procure

E. Praise

23) Which word will replace the word in (C)?

A. Regressive

B. immaculate

C. immense

D. Colossal

E. No improvement

24) Which word will replace the word in (D)?

A. Wary

B. Yield

C. Fickle

D. Inherent

E. No improvement

25) Which word will replace the word in (E)?

A. Innocuous

B. Innovative

C. vindictive

D. inundated

E. No improvement

Directions (26-30): In each question below, four words printed in bold type are given. These arenumbered (A), (B), (C) and (D). One of these words printed in bold might either bewrongly spelt or inappropriate in the context of the sentence. Find out the word thatis inappropriate or wrongly spelt, if any. The number of the word is your answer. Ifthe words printed in bold are correctly spelt and appropriate in the context of thesentence then mark (E), i.e. 'All Correct', as your answer.

26) Gopal, who lived and died by the **invisibility (A)/** of art and life, **insisted (B)/** that we ought to treat the works of others,
however **imperfect, (C)/** the way we treat their actions — with a loving **sympathy (D).**

A.Invisibility

B.Insisted

C.Imperfect

D.Sympathy

E.All are correct

27) One of the great **cruelties (A)**/ and great glories of **creative (B)**/ work is the wild**discrepency (C)**/ of timelines between vision and **execution (D)**.

A.Cruelties

B.Creative

C.Discrepency

D.Execution

E.All are correct

28) Long ago, when the **present (A)**/ and the living **appealed (B)**/ to me more, I**endeavor (C)**/ to compile best of **reading (D)** list at the close of each year.

A.Present

B.Appealed

C.Endeavor

D.Reading

Quantitative Aptitude

31) A bus is 320 m ahead of a car and 240 m ahead of a bike. Speed of the bus is 12 m/s and time taken by car to cross the bus is equal to that time taken by bike to cross the bus. If ratio of speed of car to that of bike is 10: 9, then in what time the car will cross the bike?

A.32 seconds

E.All are correct

29) Robert Province, a **nueroscientist**(A)/ from the University of Maryland, found that we're **thirty (B)**/ times more likely to laugh at **something (C)**/ when we are talking to our friends, even if what they're saying isn't really **funny (D)**.

A.Nueroscientist

B.Thirty

C.Something

D.Funny

E.All are correct

30) **Choose odd word out of the five words given below. Either it may be synonyms or antonyms.**

A.Elucidate

B.Illuminate

C.Mystify

D.Expound

E.Annotate

B.36 seconds

C.30 seconds

D.40 seconds

E.38 seconds

32) A man invested a total of Rs.4000 in two schemes A and B. Scheme A gives CI at 15% rate of interest and Scheme B gives SI at 25% rate of interest. If CI received from scheme A

after 2 years is 64.5% of SI received from scheme B after 3 years, then find the ratio of amount invested in scheme A and B respectively?

A.1: 1

B.7: 3

C.3: 2

D.5: 3

E.3: 1

33) A bag contains some 1 rupee, 50 paise and 25 paise coins. Ratio of number of 1-rupee coins to that of 50 paise coins is 3: 4 and difference between them is 10% of number of 25 paise coins. If value of 25 paise coins is Rs.8 more than that of 50 paise coins, then find the difference between the values of 1-rupee coins and 50 paise coins?

A.Rs.20

B.Rs.16

C.Rs.24

D.Rs.12

E.Rs.15

34) A and B together can complete a work in 18 minutes and A and C together can complete the work in same time in which B alone can. If C is 100% more efficient than A, then in what time A, B and C together can complete the work?

A.20 minutes

B.24 minutes

C.10 minutes

D.12 minutes

E.16 minutes

35) A tank contains certain quantity of milk. First 20% of milk is replaced with same quantity of water and again 50% of this mixture is replaced with same quantity of water. If in the final mixture quantity of water is 6 L more than that of milk, then what was the initial quantity of milk in the tank?

A.20 L

B.30 L

C.60 L

D.50 L

E.40 L

36) P started a business by investing a certain amount. After 5 months, P left, and Q joined the business by investing 62.5% of P's investment. After 7 more months, Q left and R joined the business by investing double of Q's investment. If at the end of 't' months, profit share of Q and R together is 62.5% more than that of P, then find the value of 't'?

A.18

B.20

C.15

D.16

E.24

37) Total weight of all students of a class is 800 kg. If a student of 30 kg is removed and a teacher of 70 kg is added to the class, average weight of class is increased by 15 5/8% of initial

number of students in the class. Find the average weight of all students of the class initially?

A.40 kg

B.32 kg

C.60 kg

D.50 kg

E.48 kg

38) Find the remainder when 17^{231} is divided by the HCF of 119 and 245.

A.7

B.6

C.5

D.4

E.3

39) Three pipes A, B and C are connected to a tank. They are opened alternatively each for 1 hour starting with A and they fill the tank in 25 5/7 minutes. If efficiencies of A and C are respectively 60% and 50% of that of B, then in what time A and B together will fill the tank?

A.11 minutes 15 seconds

B.10 minutes 45 seconds

C.10 minutes 30 seconds

D.11 minutes 30 seconds

E.10 minutes 15 seconds

Directions (40-44): What value should come in the place of (?) in the following number series?

40) 321, 320, 309, 288, 257, ?

A.216

B.222

C.228

D.208

E.210

41) 18, 21, 26, 33, 44, ?

A.48

B.53

C.57

D.60

E.64

42) 2, 8, 32, 144, ?, 4576

A.288

B.752

C.584

D.686

E.802

43) 11, 22, 48, 99, ?, 290

A.175

B.178

C.164

D.169

E.183

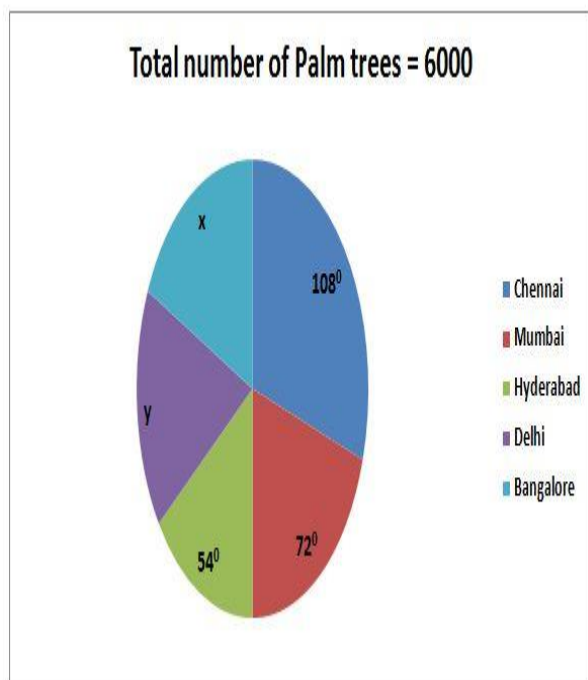44) 31, 76, 112, ?, 153, 156

A.139

B.136

C.138

D.135

E.137

Directions (45-49): Study the following information carefully and answer the questions given below.

The given pie chart shows the percentage break ups of number of palm trees in five different cities.

Total number of Palm trees = 6000

Note: x – y = 1%

45) If the difference between the number of palm trees in Chennai and Delhi is equal to the number of palm trees in Pune and the ratio of the number of 70 feet and 50 feet palm trees in Pune is 7:6, then find the number of 50 feet palm trees in Pune?

A.320
B.340
C.360
D.300
E.380

46) What is the ratio of the number of palm trees in Bangalore and the number of palm trees in Hyderabad?

A.6:5
B.5:4
C.11:9
D.2:1
E.3:2

47) Number of Neem trees in Mumbai is 25% of the total number of palm trees in Mumbai and the ratio of the number of Coconut and Mango trees in Mumbai is 8:7. If the number of Mango trees in Mumbai is 40% more than the number of Neem trees in that city, then find the number of Coconut trees in Mumbai?

A.400
B.420
C.440
D.480
E.490

48) If the average number of palm trees in Mumbai and Shimla is 880, then what is the difference between the number of palm trees in Chennai and Shimla?

A.1300
B.1290
C.1310
D.1320
E.1240

49) If the ratio of the number of palm trees in Hyderabad to Patna is 3:7, then the number of palm trees in Bangalore is what percent of the number of palm trees in Patna?

A.48.19%

B.51.42%

C.43.89%

D.53.62%

E.55.55%

Directions (50-54): What value should come in the place of (?) in the following questions.

50) 120% of 30% of 450 + 5103 ÷ √6561 = $?^2$

A.18

B.15

C.20

D.22

E.17

51) 56^2 – 28 * 97 + 6 * 93 = ? * $\sqrt[3]{(216)}$

A.167

B.171

C.163

D.168

E.159

52) (8^3 * 27) ÷ (11^2 - √9409) = ? * 24

A.24

B.27

C.23

D.25

E.28

53)

$$\sqrt[2]{33 + \sqrt[3]{43 - \sqrt[2]{256}}}$$

+ 35% of 40 = ?

A.20

B.22

C.26

D.24

E.28

54) 17 * 38 + 23 * 31 – 15 * 46 = ?

A.628

B.675

C.669

D.653

E.641

55) 120% of 175 + 40% of 280 = ? + √14641

A.201

B.208

C.205

D.211

E.198

56) Rahul takes loan from bank which offers compound interest at the rate of 20% per annum for 3 years. After three years he returned to bank is Rs.7776. Find the amount borrowed from bank?

A.Rs.3600

B.Rs.4200

C.Rs.4000

D.Rs.4500

E.Rs.3800

57) Vishal and Amala started the business with the investment of Rs.(x + 400) and Rs.(x – 1200) respectively. After 6 months Vishal withdrew one-fourth of his amount. At the end of year the total profit of the business is Rs.13000 and the profit share of Amala is Rs.6000, then find the value of x?

A.Rs.6000

B.Rs.7200

C.Rs.6600

D.Rs.7800

E.Rs.5400

58) The length of rectangular room is x m and the breadth of the rectangular room is 75% of its length. The cost of fencing of the rectangular room at the rate of Rs.15 per meter is Rs.1050. If the ratio of the breath of rectangular room to side of the cube is 3:2, then find the surface of the cube?

A.150 m2

B.1350 m2

C.726 m2

D.600 m2

E.None of these

59) The marked price of the TV is 40% above its cost price and the TV sold after giving a discount of Rs.1200 while the shopkeeper got the profit of 20%. Find the marked price of the TV?

A.Rs.8400

B.Rs.9100

C.Rs.7000

D.Rs.7700

E.Rs.9800

60) Three persons A, B and C, they are saves 40%, 30% and 25% of them incomes. If the expenditure of B and C is Rs.2100 and Rs.2400 respectively, then find the expenditure of A?

A.Rs.1200

B.Rs.1280

C.Rs.1360

D.Rs.1320

E.Cannot be determined

Directions (61-65): Following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give answer as,

61)

I) $x^2 + x – 132 = 0$

II) $y^2 + 13y – 114 = 0$

A.x > y

B.x ≥ y

C.x = y or relationship can't be determined.

D.x < y

E.x ≤ y

62)

I) $x^2 – 27x + 140 = 0$

II) $y^2 + 10y - 119 = 0$

A.x > y

B.x ≥ y

C.x = y or relationship can't be determined.

D.x < y

E.x ≤ y

63)

I) x + 6y - 27 = 0

II) 3x + 4y - 25 = 0

A.x > y

B.x ≥ y

C.x = y or relationship can't be determined.

D.x < y

E.x ≤ y

64)

I) $x^2 – 48x + 576 = 0$

II) $y^2 – 46y + 529 = 0$

A.x > y

B.x ≥ y

C.x = y or relationship can't be determined.

D.x < y

E.x ≤ y

65)

I) $x^2 – 20x + 100 = 0$

II) $y^2 + 5y – 150 = 0$

A.x > y

B.x ≥ y

C.x = y or relationship can't be determined.

D.x < y

E.x ≤ y

Reasoning Ability

Directions (66-70): Answer the questions based on the information given below.

Eight persons viz. M, N, O, P, Q, R, S and T are living in an eight storey building, but not necessarily in the same order. The bottommost floor is numbered as 1 and the floor immediately above is numbered as 2 and so on. Not more than one person lives on the same floor. The consecutive alphabetically named person doesn't live on the adjacent floors of the building.

Q lives on an odd-numbered floor and three floors below R. S lives between Q and R.Only two persons live between S and T who doesn't live on the bottommost floor. P lives on an even-numbered floor. The number of floors above P is the same as the number of floors below M. O lives three floors below N.

66) Who among the following person lives on the floor immediately above M?

A.T

B.R

C.O

D.Q

E.None of these

67) How many persons live between S and O?

A.As many as between N and Q

B.Two

C.Three

D.More than three

E.As many as between P and Q

68) On which of the following floor does N live?

A.The Floor number which is multiple of Q's floor number

B.8th floor

C.7th floor

D.The floor number which is Sum of M and S floor number

E.None of these

69) What is the position of Q with respect to P?

A.Three floors above

B.Three floors below

C.Five floors above

D.Five floors below

E.None of these

70) If all the persons live according to the English alphabetical series from top to bottom, then how many persons remain unchanged in their position?

A.One

B.Two

C.Three

D.More than three

E.None

Directions (71-75): Answer the questions based on the information given below.

In a certain code language,

"Financial status improves well" is coded as "brt ljs niw cbu".

"Monitoring everyone status help" is coded as "ycb ont ljs ewr".

"Help improves personal confidence" is coded as "jkq ewr spr niw".

"Well personal equipped monitoring" is coded as "ont cbu hse spr".

71) What is the code for the word "confidence"?

A.ewr

B.niw

C.jkq

D.spr

E.None of these

72) Which of the following word denotes the code "brt"?

A.Improves

B.Financial

C.Status

D.Well

E.None of these

73) What is the code for the word "equipped"?

A.spr

B.cbu

C.ont

D.hse

E.None of these

74) Which of the following word denotes the code "ycb"?

A.Everyone

B.Monitoring

C.Help

D.Status

E.Cannot be determined

75) If all the letters in the word "LACKADAISICAL" are arranged in alphabetical order from left to right, then how many letters remain unchanged in their positions?

A.One

B.Two

C.Three

D.More than three

E.None

Directions (76-80): Answer the questions based on the information given below.

Eight persons viz. S, T, U, V, W, X, Y and Z are standing on a straight line such that all of them are facing towards north, but not necessarily in the same order. All the persons stand equidistance from each other.

T stands second to the left of V who stands adjacent to X. X stands second from one of the extreme ends. Only three persons stand between S and T who stands three persons away from U. Z stands to the immediate right of W and second to the left of Y.

76) How many persons stand between T and X?

A.Same as between W and Y

B.Two

C.Three

D.One less than the number of person between U and Y

E.both (a) and (d)

77) Who among the following person stands third to the left of Y?

A.U

B.S

C.W

D.No such person

E.None of these

78) What is the position of V with respect to Z?

A.Second to the left

B.Third to the right

C.Immediate right

D.Fourth to the left

E.None of these

79) If all the persons stand in alphabetical order from left to right, then how many persons remain unchanged in their position?

A.One

B.Two

C.Three

D.More than three

E.None

80) If Z is related to V and U is related to T in a certain way, then who among the following person is related to Y?

A.W

B.X

C.S

D.Z

E.None of these

Directions (81-83): Answer the questions based on the information given below.

Ten persons viz. G, H, I, J, K, L, M, N, O and P are from the same family with three generations and not more than three couples in the family, but not necessarily in the same order. An equal number of males and females in the family.

N is the brother of P who is the mother of M. I is the brother of K and the father of O. J is the only daughter-in-law of G who is the husband of L. Both J and N are the parent of H who is a male. K is the paternal aunt of M who is the brother of O.

81) How is O related to L?

A.Daughter

B.Maternal granddaughter

C.Son

D.Grandson

E.Cannot be determined

82) Who among the following is the son of P?

A.H

B.O

C.M

D.N

E.None of these

83) How is K related to P?

A.Brother

B.Sister

C.Brother-in-law

D.Sister-in-law

E.None of these

Directions (84-85): Answer the questions based on the information given below.

Point L is 12m to the west of point M which is 16m to the north of point N. Point O is 5m to the west of point N and 5m to the south of point P. Point T is 4m to the north of point S and 13m to the east of point U. Point R is 10m to the west of point S and 11m to the north of point Q. The distance between P and Q is the same as the distance between R and S where point Q lies to the east of point P.

84) What is the direction of point M with respect to point R?

A.Northeast

B.East

C.Northwest

D.West

E.None of these

85) What is the shortest distance between the points L and S?

A.25m

B.27m

C.22m

D.28m

E.Cannot be determined

Directions (86-90): Answer the questions based on the information given below.

Eight persons viz. M, N, O, P, Q, R, S and T are sitting on a circular table such that all of them

are facing towards the centre, but not necessarily in the same order.

O sits adjacent to T who faces towards P. Only two persons sit between O and N.S sits to the immediate right of N and second to the right of R. M neither sits adjacent to O nor sits facing towards S.

86) Who among the following person sits second to the left of P?

A.The one who facing Q

B.R

C.The one who sits fifth to the left of T

D.Q

E.None of those given as an option

87) If M is related to O and T is related to N in a certain way, then who among the following person is related to S?

A.Q

B.P

C.R

D.M

E.None of these

88) How many persons sit between R and T when counted from the right of R?

A.As many as between S and N when counted from left of S

B.As many as between M and Q when counted from right of M

C.As many as between S and P when counted from left of P

D.As many as between Q and O when counted from right of O

E.None of these

89) What is the position of P with respect to O?

A.Second to the right

B.Third to the left

C.Third to the right

D.Fourth to the left

E.None of these

90) Who among the following person sits to the immediate right and left of M respectively?

A.PQ

B.SP

C.QP

D.PS

E.None of these

Directions (91-95): Answer the questions based on the information given below.

5 β G 4 H $ 2 1 V B % 6 X 7 T ¥ R @ D F 0 & 9 Y J ^ O 8 M € L # I 3 ! U A *

91) Which of the following element is seventh to the left of sixteenth from the right end in the above series?

A.R

B.€

C.¥

D.T

E.None of these

92) If all the odd numbers are dropped from the series, then which of the following element is twenty-second from the left end?

A.J

B.0

C.&

D.^

E.None of these

93) How many letters are immediately preceded by a symbol and immediately followed by a number in the given series?

A.One

B.Two

C.Three

D.More than three

E.None

94) If all the symbols and numbers are deleted, then how many letters are there between the third letter from the left end and the fifth letter from the right end as per the alphabetical series?

A.Six

B.Seven

C.Five

D.Nine

E.None of these

95) How many such pairs of letters are there in the word "ARCHITECTURE" which have as many letters between them as there are in the English alphabetical series (both forward and backward direction)?

A.Two

B.Three

C.Four

D.Five

E.None of these

Directions (96-100): Answer the questions based on the information given below.

Nine persons viz. A, B, C, D, E, F, G, H and I are writing a competitive exam on different months starting from January to September of the same year, but not necessarily in the same order.

Only two persons write the exams between E and C where both of them doesn't write in the month having 31 days. I writes the exam four months before E. The number of persons writing the exam between C and I is one less than the number of persons writing the exam between C and F who writes the exam at a gap of three persons from H. A writes the exam in the month having less than 31 days and immediately after D. At least three persons write the exam between A and G who writes immediately after B.

96) Who among the following person writes the exam in February?

A.A

B.D

C.I

D.H

E.None of these

97) How many persons write the exam between D and B?

A.One

B.Two

C.Three

D.More than three

E.None

98) In which of the following month does G writes the exam?

A.August

B.July

C.June

D.September

E.None of these

99) If I is related to G and A is related to E in a certain way, then who among the following person is related to C?

A.I

B.D

C.H

D.F

E.None of these

100) Four of the following five are alike in a certain way and hence form a group. Find the one who doesn't belong to that group.

A.B

B.G

C.H

D.F

E.A

Answer With Explanation

1) Answer: E

By reading all paragraphs we can conclude that all are true according to the context.

1 Paragraph: "It seems incomprehensible that even at the height of the crisis of theCovid-19 lockdown, when the shutdown of livelihoods created a vast and acutecrisis of hunger for millions of migrants and informal workers, government policywas concerned with the establishment of proper procedure for the identification of beneficiaries for distribution.

2 Paragraph: "It was pointed out that government godowns had adequate stocks offood grain to make this feasible"

Last Paragraph: "In theory, rules and procedures are needed to limit the scope ofadministrative power that is available to unelected officials.

So option E will be the correct choice here.

2) Answer: D

.The answer can be given from the following passage-It seems incomprehensible that even at the height of the crisis of the Covid-19lockdown,

when the shutdown of livelihoods created a vast and acute crisis of hunger for millions of migrants and informal workers, government policy was Concerned with the establishment of proper procedure for the identification of beneficiaries for distribution.

Instead, the state governments (for in India's federal framework, this task was left largely to them) tried to extend the reach of the PDS delivery mechanism by devising new procedures to add temporary beneficiaries.

So option D will be the correct choice.

3) Answer: C

Contours' means an outline representing or bounding the shape or form of something.

Spawn means the eggs of fish, frogs, etc.

So option C will be the correct choice here

4) Answer: B

'**Random**' is synonymous with 'arbitrary'.

Confined means (of a space) restricted in a area or volume; cramped

So option B will be the correct choice

5) Answer: D

'**Inarticulate**' means unable to express one's ideas or feelings clearly or easily, which is synonymous with 'incomprehensible'

So option D will be the correct choice here.

Pontificate means express one's opinion in a pompous and dogmatic way.

6) Answer: B

Delivered & preferred interchange gives proper meaning to the sentence.

For any relief that needed to be *provided* sooner, government policy either *preferred* the parcel of relief was small enough, such as one meal, for there not to be a *misallocation* issue, or it was *delivered* by non-State actors without direct involvement of government funds and materials.

So option B is the correct one.

7) Answer: B

In the given sentence there are errors in 2 parts of the sentence C and D

C: replace the base form verb Carry with Carried as the past participle from of the verb will be used since this part of the sentence is in passive voice.

D: replace the singular verb BREEDS with the plural verb BREED as the subject BARK BEETLES is plural.

So B is the correct answer.

8) Answer: D

In the given sentence there are errors in 2 parts of the sentence A and C

A: between should replace among as "Between" is used with two separate and distinct things and among is used to portray the idea of being in a group or in the midst of group. So it should be "The correlations between depression and smartphone use"

C: Replace MUCH which is used for modify uncountable nouns with MORE which is used to modify countable nouns as Parents are countable.

So D is correct answer.

9) Answer: D

In the given sentence there are errors in 2 parts of the sentence A and C

A: Replace the singular verb HAS with the plural verb HAVE to agree with the plural subject RESTRICTIONS.

C: Replace the base form of verb RESPOND with the past participle verb RESPONED to fit the present perfect tense construction HAS + V3

10) Answer: D

In the given sentence there are errors in 2 parts of the sentence A and C

A: Instead of 'Although' it should be 'while'. It is to be noted that 'although' is always followed by yet.

B: as the sentence is talking about healthcare professionals which are plural so needs should be replaced with need.

So D is the right answer.

11) Answer: C

In the sentence the errors are part B and D of the sentence.

In part B 'different' must be replaced by 'differing'. Note that the word 'different' is an adjective that means not the same as another

thing. The word 'differing' is the present participle of the verb 'to differ' and it also expresses a continuing difference.

In part D removed 'about' after discuss to make sentence grammatically correct. 'Discussed' is never followed by about.

So, C is the right answer.

12) Answer: D

Pernicious: harmful, adverse, and hurtful

In sentence A it is said that Drinking and smoking can be harmful to health which is correct

In sentence B it is said that Continuous use of mobile can be harmful as it produces ultraviolet rays and may affect the eyes

In sentence C it is said that the new version of Corona virus is harmful as it spreads quickly and can led to immediate death

So word usage in Sentence, B and C is correct but word usage in sentence D is wrong because the Vitamin supplements he took increased his stamina and proved pernicious (harmful) for his health which is wrong and contrasting here. "Beneficial" should replace pernicious here because if anything increases stamina and energy it should be beneficial not harmful so here word usage is incorrect.

13) Answer: C

Wane: To decrease, to reduce gradually, to decrease in size, strength or influence
To become weak

In sentence A it is said that Since sales have started to decrease Company asked for an urgent meeting to discuss policies regarding it. So it is correct

In sentence B it is said that Geeta decided to explore other career options when demand for her placement services started to decline or reduced. So it is correct

In sentence D it is said that the actor is so popular that his popularity will never reduce.

In sentence C it is said that the reduction in a crime is a sad reflection on the society which is incorrect if crime scenario decreases it will be pleasant situation for all so here in place of wane it should be increase in a crime is a sad reflection on the society. Increase should replace wane here so here word usage is wrong. So C is the right answer.

14) Answer: D

Faintly: slightly, a little bit, very quietly or lightly

Sentence A states that the smell of lavender lingered slightly in the room so here word usage is correct.

Sentence C states that Baby smiled little bit or slightly comforted by presence of its mother, so here word usage is correct.

But the word usage in sentences B and D is incorrect:

Sentence B is stating that software should be slightly or a little bit updated for smooth working which is wrong frequently should replace faintly so here word usage is incorrect.

Sentence D states that Reena participates slightly or lightly or a little bit in dance competition and in essay writing activities held in school every month which is wrong it is also replaced by frequently so it should be Reena participates frequently in dance competition and in essay writing activities held in school every month. Frequently will replace faintly in both the sentences.So word usage in only B and D is wrong, so D is correct answer.

15) Answer: A

Profuse: A lot, sufficient, abundant, excessive, given or produced in a great quantity.

Sentence B is stating that John has gained so much weight that even his doctor is concerned about his excessive growth. So here word usage is correct.

Sentence D states that Prashant received a lot of, excessive praise for his excellent performance in the examinations. So here also word usage is correct.

Sentence C states that she was rushed in hospital in middle of night as her bleeding was excessive.

But in sentence A word usage is wrong After taking proper diet and doing regular exercise every day the woman's body had a profuse amount of a fat on it. Because it is contrary and here wrong word is used if a person takes proper diet and does exercise every day then his or her fat will get reduced not increase or there is no excessive amount of fat will left after these

activities. So here Scarce (less in quantity or number) will replace profuse in sentence A. so A is the correct answer.

16) Answer: A

A-E: The advancement of digital tools and technology in areas such as artificial intelligence has enabled them to monitor and profile user behavior, preferences and even daily routines, granting them the potential power to influence their decisions.

This pair can be connected grammatically and contextually as it is showing how improvement in field of digital tools such as Artificial Intelligence has impacted the party.

Sentence B tells us that Indian users today are accessing digital technology driven services but in another two options D and F the continuing sentences related to services is not given so B can't be paired with other 2 sentences.

Sentence C tells us that "On the surface, the Museveni Government may have created an illusion that it has" which illusion they have created is not mentioned in another options given in column II so it also can't be paired with another sentences.

17) Answer: B

B-E: Food prices that surprisingly have remained benign helping slow overall CPI inflation could also start hardening once the impact of the higher pay-out on the minimum support price for kharif crops kicks in.

It can be paired as it is showing that the food prices which remained surprisingly gentle fixed or in balance suddenly slow overall CPI inflation and how it will impact the kharif crops.

C-D: The Delhi police's Economic Offences Wing (EOW) arrested pharmaceutical giant Ranbaxy Ltd.'s former prompter Malvinder Singh in early hours on Friday, Hours after he was detained in Ludhiana late on Thursday for allegedly causing wrongful loss of Rs2397 crore to ReligareFinvest Ltd.

The sentence can be paired because it is telling about the arrest of Malvinder Singh and his caused loss and detention.

After pairing of these sentences, only pair left is A-F which can't be paired because sentence A states that Global consumption of ozone depleting materials has been reduced of late while sentence F elaborates about fostering entrepreneurship and facilitating financial environment and inclusion. Relation between Global consumption and fostering entrepreneurship can't be matched here so A-F is incorrect pair and contextually incorrect sentence.

18) Answer: D

B-F: The world's 2 most populous countries China and India accounting for roughly 40% of the total population are the 2 fast growing major economies in the world.

B-F can be paired because it is explaining about India and China's population and their growth.

C-E: In September, IBREL (Indiabulls Real Estate Ltd) sold its remaining stake in some of its office assets in Gurugram and central Mumbai to Blackstone for around Rs 2717 crore, by making IBREL debt-free and not having Sameer Gehlaut as promoter of IBREL.

So it can be paired because it is telling about Indiabulls stake selling to make it debt free and not Sameer Gehlaut as promoter of IBREL. So B is correct answer.

A-D: Indiabulls Group may rework its plan to exit the real estate business following the Reserve Bank of India rejection of a merger proposal of Laxmi Vilas Bank and Indiabulls Housing Finance Ltd., a person aware of the matter said even as it plans to turn Indiabulls Real Estate Ltd. (IBREL) debt-free work out its ownership pattern.

A-D can't be connected because A part in column I is talking about Indiabulls plan reworking about plan to exit the real estate business following the Reserve Bank of India rejection of a merger proposal of Laxmi Vilas Bank and Indiabulls Housing Finance Ltd and D part in column is talking about making the company debt free s the sentences are not matching contextually and can't be paired.

19) Answer: C

Here we have to check the parts from the two columns and understand which parts can be connected to make a proper and meaningful sentence in each case.

When we start checking the options. We can see that part A from column I does not match any part from column II contextually and grammatically.

The same is the case for part B. it does not match any part from column II.

The two columns and understand which parts can be connected make a proper and meaningful sentence in each case.

When we start checking the options. We can see that part A from column I does not match any part from column II.

Part C says 'Teachers' associations are opposed to restarting physical classes immediately' and part E gives the reason behind it. So, both are making a perfect pair. Therefore, option C is the correct.

20) Answer: D

While A-E can be paired logically but it unfits grammatically. The choice of adverb at the beginning is wrong. To make a correct sentence the adverb where should have been used instead of 'there'

B-F can be paired but again there is a grammatical error, part B is in past tense as it talking of all fires since beginning of the year but part F is in present continuous tense so this makes tense conflict and sentence incorrect.

Parts C-D are both logically fit with each other as the sentence conveys about neighborly state of Sikkim's permission for interstate people

migration without any registration. So D is the right answer.

21) Answer: A

A is the right answer. We need an adjective to modify the noun PROBLEMS. The sentence seeks to convey that cities have adopted innovative solutions to convey that cities have adopted innovative solutions to tackle the problems of transportation, traffic, congestion, safety and pollution. A peripheral activity or issue is the one which is not very important compared with other activities or issues. It does not fit contextually. **Perennial** is used to describe situations or states that keep occurring or which seem to exist all the time; used especially to describe problems or difficulties. So it fits contextually.

22) Answer: B

B is the right answer. We need an adjective to modify the noun DEVELOPMENTS. The sentence seeks to convey that there have been several incidents in Gurugram and Delhi that would indicate that the authorities and willing to adopt innovative solutions. **Precedent** does not fit contextually. If there is a **precedent** for an action or event, it has happened before; this can be regarded as an argument for doing it again. A recent event or period of time happened only a short while ago.

So recent will replace precedent.

23) Answer: E

E is the right answer. The sentence is grammatically and contextually correct. It seeks to convey that the move to make metro free for women is being analysed and it is a bold step. So it is correct and there is no need to replace the word.

24) Answer: D

D is the right answer. We need an adjective to modify the noun PROBLEMS. The sentence seeks to convey that for a long term solution, we need to resolve the problem of congestion and the lack of walkable spaces. ADHERENT does not fit contextually. It is used to refer to someone who supports a particular party, or set of ideas. Inherent fits contextually. It is used to describe something that is existing in something as a permanent, essential or characteristic attribute.

25) Answer: B

B is the right answer. We need an adjective to modify the noun Solutions. Innovation is a noun. Innovative is an adjective. So it is incorrect. The sentence seeks to convey that the cities and people need to look for solutions that can resolve the different social and environmental problems.

26) Answer: A

The correct word for the replacement will be "**Indivisibility**".

27) Answer: C

Correct replacement for the word

is **"discrepancy".**

28) Answer: C

Correct replacement for the word **"endeavored"**

since it represents past tense.

29) Answer: A

The correct replacement for the word is

"neuroscientist".

30) Answer: C

Mystify: Puzzling, vague, not clear

Except "mystify" other words are group of

synonym of elucidate means proper

details,explanation.

31) Answer: D

Let speeds of car and bike are '10x' m/s and '9x'

m/s, respectively.

Since distance between car and bus is 320 m

and that between bike and bus is 240 m.

So, distance between car and bike = 320 – 240

= 80 m

From the question:

$320/(10x – 12) = 240/(9x – 12)$

$4/(10x – 12)=3/(9x – 12)$

$36x – 48 = 30x – 36$

$x = 2$

Speed of car = 10 * 2 = 20 m/s

Speed of bike = 9 * 2 = 18 m/s

So, time taken by the car to cross the bike =

80/(20 – 18) = 40 seconds

32) Answer: C

Let amount invested in scheme A = 'x' rupees

So, amount invested in scheme B = (4000 – x)

rupees

From the question:

$$\left[x * \left(1 + \frac{15}{100}\right)^2 - x\right] = \left[(4000 - x) * 25 * \frac{3}{100}\right]$$

$$\left(\frac{529x}{400}\right) - x = \left[(4000 - x) * \frac{3}{4}\right] * \left(\frac{129}{200}\right)$$

$$\frac{129x}{400} = (4000 - x) * \left(\frac{3}{4}\right) * \left(\frac{129}{200}\right)$$

$$x = (4000 - x) * \left(\frac{3}{2}\right)$$

2x = 12000 – 3x

x = 2400

Amount invested in scheme A = Rs.2400

Amount invested in scheme B = 4000 – 2400 =

Rs.1600

Required ratio = 2400: 1600 = 3: 2

33) Answer: B

Let number of 1 rupee and 50 paise coins in the

bag are '3x' and '4'x respectively

Since difference between the number of 1 rupee

and 50 paise coins is 10% of the number of 25

paise coins.

So, number of 25 paise coins in the bag = (4x –

3x) * 100/10 = 10x

From the question:

(10x/4)– (4x/2)= 8

(10x – 8x)/4= 8

x = 16

Value of 1-rupee coins in the bag = 3 * 16 * 1 = Rs.48

Value of 50 paise coins in the bag = 4 * 16 * (1/2) = Rs.32

Required difference = 48 – 32 = Rs.16

34) Answer: D

Since time taken by A and B together to complete the work = 18 minutes

So, (1/A)+ (1/B)=1/18 --------------(1)

Since time taken by A and C together to complete the work = time taken by B alone to complete the work.

So, (1/A)+ (1/C) = (1/B) --------------(2)

From equation (1) and (2):

(1/A)+ (1/A)+ (1/C)=1/18

(2/A)+ (1/C)=1/18   --------------(3)

Since C is 100% more efficient than A.

So, (2/2C)+ (1/C) = 1/18

C = 36 minutes

From equation (3):

2/A= (1/18)– (1/36)=(2 – 1)/36=1/36

A = 72 minutes

From equation (1):

1/B= (1/18)– (1/72)=(4 – 1)/72=1/24

B = 24

Work done by A, B and C together in 1 minute:

(1/72)+ (1/24)+ (1/36)=(1 + 3 + 2)/72=1/12

So, time taken by A, B and C together to complete the work = 12 minutes

35) Answer: B

Let initial quantity of milk in the tank = '10x' L

After replacing 20% milk with same quantity of water:

Quantity of milk in the tank = 80% of '10x' = '8x' L

And quantity of water in the tank = 10x – 8x = '2x' L

After replacing 50% of this mixture with same quantity of water:

Quantity of milk in the tank = 50% of '8x' = '4x' L

And quantity of water in the tank = 50% of '2x' + 50% of '10x' = '6x' L

From the question:

6x – 4x = 6

x = 3

So, initial quantity of milk in the tank = 3 * 10 = 30 L

36) Answer: C

Let P's investment = '8x' rupees

So, Q's investment = 62.5% of '8x' = '5x' rupees

And R's investment = 2 * 5x = '10x' rupees

Time period for P's investment = 5 months

Time period for Q's investment = 7 months

Time period for R's investment = (t – 12) months

So,

(5x * 7) + [10x * (t – 12)] = (8x * 5) * (162.5/100)

35 + 10t – 120 = 40 * (13/8)

10t – 85 = 65

t = 15

37) Answer: D

Let total number of students in the class = n

Total weight of 'n' students of the class = 800 kg

So, total weight of (n – 1) students and 1 teacher = 800 – 30 + 70 = 840 kg

From the question:

$800/n = (840/n) - n * (125/800)$

$5n/32 = (840/n) - (800/n)$

$5n/32 = 40/n$

$n^2 = 256$

$n = 16$

Required average = 800/16 = 50 kg

38) Answer: B

119 = 17 * 7

245 = 5 * 7 * 7

HCF of 119 and 187 = 7

Now, we have to find the remainder when 17^{231} is divided by 7.

Remainder when 17^1 is divided by 7 = 3

Remainder when 17^2 is divided by 7 = 2

Remainder when 17^3 is divided by 7 = 6

Remainder when 17^4 is divided by 7 = 4

Remainder when 17^5 is divided by 7 = 5

Remainder when 17^6 is divided by 7 = 1

Remainder when 17^7 is divided by 7 = 3

Remainder when 17^{6n} is divided by 7 is 1. ['n' is a natural number.]

$$17^{231} = (17^6)^{38} * 17^3$$

Remainder when $(17^6)^{38}$ is divided by 7 is 1 while remainder when 17^3 is divided by 7 is 6.

Required remainder = 1 * 6

= 6

39) Answer: A

Total time taken by pipes A, B and C to fill the tank while working alternatively = 25 5/7 minutes = (180/7) minutes

So, part of tank filled in first 3 minutes = (7/180)* 3 = 7/60

Let part of tank filled by pipe B in 1 minute = '10x'

Since efficiencies of A and C are respectively 60% and 50% of that of B.

So, part of tank filled by pipe A in 1 minute = 60% of '10x' = 6x

And part of tank filled by pipe C in 1 minute = 50% of '10x' = 5x

So, part of tank filled by pipe A in 1 minute = (7/60)* (6x/21x)=1/30

And part of tank filled by pipe B in 1 minute = (7/60)* (10x/21x)=1/18

Now, part of tank filled by pipes A and B together in 1 minute:

(1/30)+ (1/18)=(3 + 5)/90=8/90=4/45

So, time taken by pipes A and B together to fill the tank = 45/4 = 11 minutes 15 seconds

40) Answer: A

321 – 1 = 320

320 – 11 = 309

309 – 21 = 288

288 – 31 = 257

257 – 41 = 216

41) Answer: C

18 + 3 = 21

21 + 5 = 26

26 + 7 = 33

33 + 11 = 44

44 + 13 = 57

42) Answer: B

2 * 2 + 4 = 8

8 * 3 + 8 = 32

32 * 4 + 16 = 144

144 * 5 + 32 = 752

752 * 6 + 64 = 4576

43) Answer: A

11 + 11 * 1 = 22

22 + 13 * 2 = 48

48 + 17 * 3 = 99

99 + 19 * 4 = 175

175 + 23 * 5 = 290

44) Answer: C

31 + 45 = 76

76 + 36 = 112

112 + 26 = 138

138 + 15 = 153

153 + 3 = 156

45) Answer: C

Number of palm trees in Chennai = 108/360 * 6000 = 1800

Number of palm trees in Mumbai = 72/360 * 6000 = 1200

Number of palm trees in Hyderabad = 54/360 * 6000 = 900

x + y = (360 – 108 + 54 + 72)/360 = 2100

x – y = 1/100 * 6000 = 60

2x = 2160

x = 1080

y = 1020

Number of palm trees in Delhi = 1020

Number of palm trees in Bangalore = 1080

Number of 50 feet palm trees in Pune = 6/13 * (1800 – 1020) = 360

46) Answer: A

Required ratio = 1080:900

= 6:5

47) Answer: D

Number of palm trees in Mumbai = 1200

Number of Neem trees = 1200 * 25/100 = 300

Number of Mango trees = 140/100 * 300 = 420

Number of coconut trees = 8/7 * 420 = 480

48) Answer: E

Number of palm trees in Shimla = (880 * 2) – 1200

= 560

Number of palm trees in Chennai = 1800

Difference = 1800 – 560 = 1240

49) Answer: B

Number of palm trees in Patna = 7/3 * 900

= 2100

Number of palm trees in Bangalore = 1080

Required percentage = 1080/2100 * 100

= 51.42%

50) Answer: B

120% of 30% of 450 + 5103 ÷ √6561 = $?^2$

162 + 63 = $?^2$

? = 15

51) Answer: C

56^2 – 28 * 97 + 6 * 93 = ? * $\sqrt[3]{216}$

3136 – 2716 + 558 = ? * 6

? = 163

52) Answer: A

(8^3 * 27) ÷ (11^2 - √9409) = ? * 24

576 = ? * 24

? = 24

53) Answer: A

$\sqrt[2]{33 + \sqrt[3]{43 - \sqrt[2]{256}}}$ + 35% of 40 = ?

6 + 14 = ?

? = 20

54) Answer: C

17 * 38 + 23 * 31 – 15 * 46 = ?

646 + 713 – 690 = ?

? = 669

55) Answer: A

120% of 175 + 40% of 280 = ? + √14641

210 + 112 = ? + 121

? = 201

56) Answer: D

7776 = x * $(1 +20/100)^3$

x = 4500

57) Answer: A

((x + 400)* 6 + (x + 400)* 3/4 * 6)/((x – 1200)* 12)=(13000 – 6000)/6000

(10.5x + 4200)/(12x – 14400)=7/6

84x – 100800 = 63x + 25200

x = 6000

58) Answer: D

Length of rectangle = 4x

Breadth of rectangle = 4x * 75/100 = 3x

2 * (4x + 3x)=1050/15

x = 5

Breadth of the rectangle = 5 * 3 = 15 m

Side of the cube = 15 * 2/3 = 10 m

Surface area of the cube = 6 * 10 * 10 = 600 m^2

59) Answer: A

CP of TV = 100x

MP of TV = 100x *140/100= 140x

140x – 1200 = 100x *120/100

20x = 1200

x = 60

MP of TV = 60 * 140 = Rs.8400

60) Answer: E

Expenditure of B = 70%

Expenditure of C = 75%

Income of B = 100/70* 2100 = 3000

Income of C = 100/75* 2400 = 3200

Data inadequate

61) Answer: C

$x^2 + x – 132 = 0$

$x^2 + 12x - 11x – 132 = 0$

$x(x + 12) - 11(x + 12) = 0$

$(x + 12)(x – 11) = 0$

$x = -12, 11$

$y^2 + 13y – 114 = 0$

$y^2 + 19y - 6y – 114 = 0$

$y(y + 19) - 6(y + 19) = 0$

$(y + 19)(y – 6) = 0$

$y = 6, -19$

Relationship between x and y cannot established.

62) Answer: B

$x^2 – 27x + 140 = 0$

$x^2 – 20x – 7x + 140 = 0$

$x(x – 20) – 7(x – 20) = 0$

$(x – 7)(x – 20) = 0$

$x = 7, 20$

$y^2 + 10y - 119 = 0$

$y^2 + 17y – 7y – 119 = 0$

$y(y + 17) – 7(y + 17) = 0$

$(y – 7)(y + 17) = 0$

$y = 7, -17$

$x ≥ y$

63) Answer: D

$x + 6y - 27 = 0$ ------(1)

$3x + 4y - 25 = 0$ -----(2)

From (1) and (2)

$x = 3$

$y = 4$

$x < y$

64) Answer: A

$x^2 – 48x + 576 = 0$

$x^2 – 24x – 24x + 576 = 0$

$x(x – 24) – 24(x – 24) = 0$

$(x – 24)(x – 24) = 0$

$x = 24, 24$

$y^2 – 46y + 529 = 0$

$y^2 – 23y – 23y + 529 = 0$

$y(y – 23) – 23(y – 23) = 0$

$(y – 23)(y – 23) = 0$

$y = 23, 23$

$x > y$

65) Answer: B

$x^2 – 20x + 100 = 0$

$x^2 – 10x – 10x + 100 = 0$

$x(x – 10) – 10(x – 10) = 0$

$(x – 10)(x – 10) = 0$

$x = 10, 10$

$y^2 + 5y – 150 = 0$

$y^2 + 15y – 10y – 150 = 0$

$y(y + 15) – 10(y + 15) = 0$

$(y – 10)(y + 15) = 0$

$y = 10, -15$

$x ≥ y$

Directions (66-70):

66) Answer: C

67) Answer: A

68) Answer: D

69) Answer: D

70) Answer: E

Floor	Person
8	P
7	T
6	R
5	N
4	S
3	Q
2	O
1	M

1. Q lives on an odd-numbered floor and three floors below R.

2. S lives between Q and R.

3. Only two persons live between S and T who doesn't live on the bottommost floor.

Floor	Case 1 Person	Case 2 Person	Case 3 Person
8			R
7		T	
6		R	S
5	T		Q
4	R	S	
3		Q	T
2	S		
1	Q		

4. P lives on an even-numbered floor.

5. The number of floors above P is the same as the number of floors below M.

6. O lives three floors below N.

7. The consecutive alphabetically named person doesn't live on the adjacent floors of the building.

8. Hence, cases 1 and 3 get eliminated.

Floor	Case 1 Person	Case 2 Person	Case 3 Person
8		P	R
7		T	M
6	P	R	S
5	T	N	Q
4	R	S	N
3	M	Q	T
2	S	O	P
1	Q	M	O

Directions (71-75):

Word	Code
Status	ljs
Help	ewr
Improves	niw
Well	cbu
Personal	spr
Confidence	jkq
Financial	brt
Monitoring	ont
Everyone	ycb
Equipped	hse

71) Answer: C

72) Answer: B

73) Answer: D

74) Answer: A

75) Answer: B

L A C K A D A I S I C A L

A **A** A C C D **I** I K L L S

Hence, option B is correct.
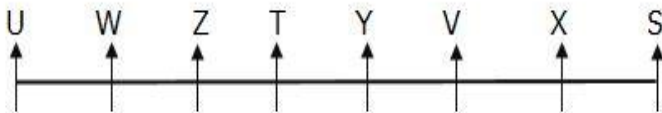
Directions (76-80):

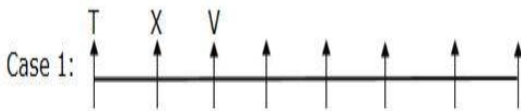76) Answer: E

77) Answer: C

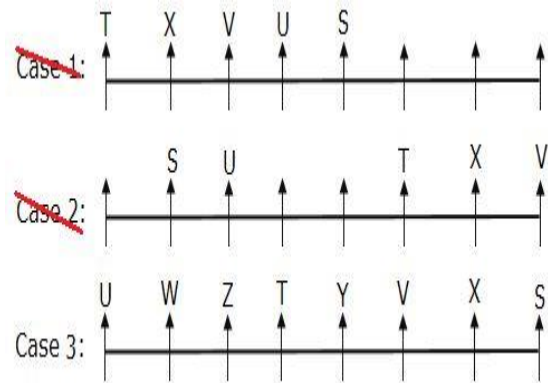78) Answer: B

79) Answer: E

80) Answer: A

1. T stands second to the left of V who stands adjacent to X. X stands second from one of the extreme ends.

2. Only three persons stand between S and T who stands three persons away from U. Z stands to the immediate right of W and second to the left of Y. Hence, cases 1 and 2 get eliminated.
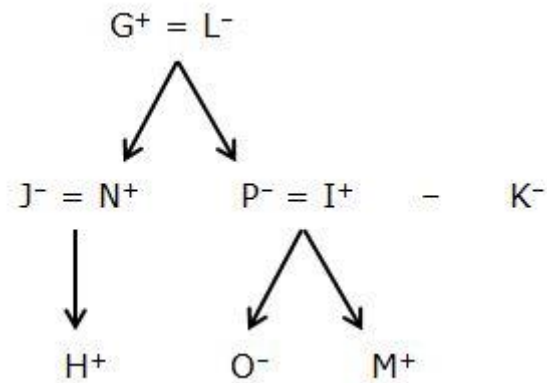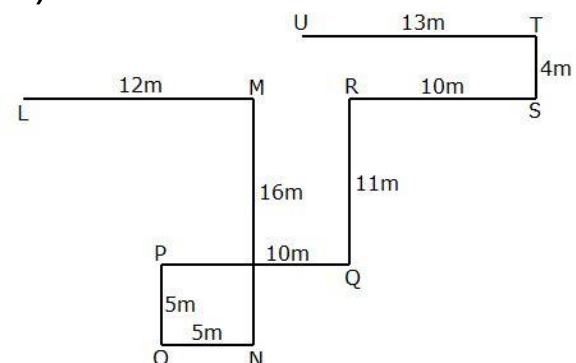

Directions (81-83):

81) Answer: B

82) Answer: C

83) Answer: D

$$G^+ = L^-$$

$$J^- = N^+ \qquad P^- = I^+ \qquad - \qquad K^-$$

$$H^+ \qquad O^- \qquad M^+$$

Directions (84-85):

84) Answer: D

85) Answer: B

Directions (86-90):

86) Answer: A

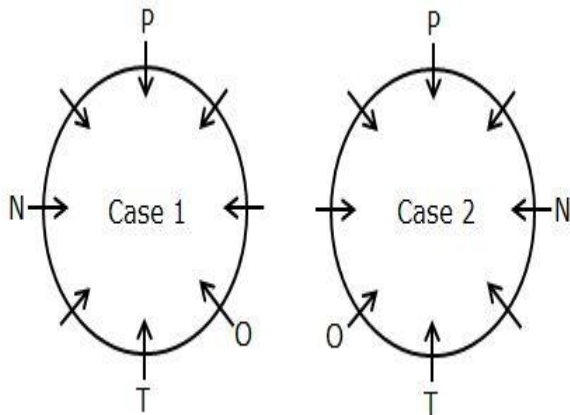87) Answer: C

88) Answer: D

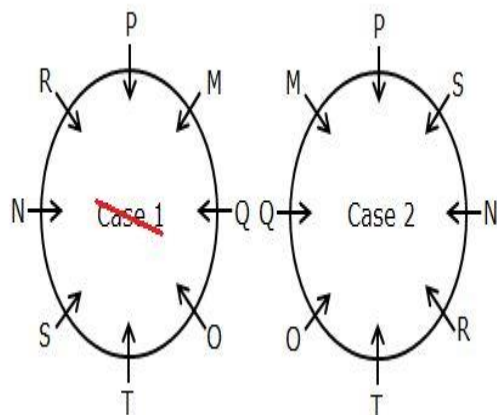89) Answer: B

90) Answer: C
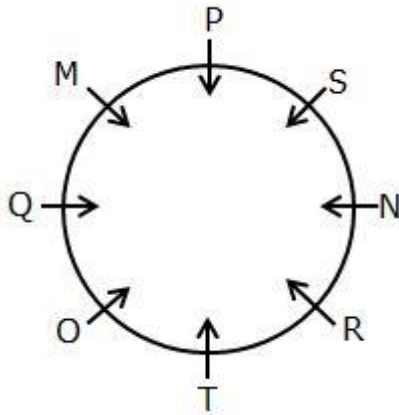
1. O sits adjacent to T who faces towards P. Only two persons sit between O and N.

2. S sits to the immediate right of N and second to the right of R. M neither sits adjacent to O nor sits facing towards S. hence, case 1 gets eliminated.

91) Answer: C

5 β G 4 H $ 2 1 V B % 6 X 7 T ¥ R @ D F 0 & 9 Y J ^ O 8 M € L # I 3 ! U A *

92) Answer: D

5 β G 4 H $ 2 1 V B % 6 X 7 T ¥ R @ D F 0 & 9 Y J ^ O 8 M € L # I 3 ! U A *

After dropping odd numbers:

β G 4 H $ 2 V B % 6 X T ¥ R @ D F 0 & Y J ^ O 8 M € L # I ! U A *

93) Answer: C

5 **β G 4** H $ 2 1 V B % 6 X 7 T ¥ R @ D F 0 & 9 Y J **^ O** 8 M € L **# I 3** ! U A *
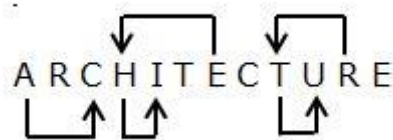
94) Answer: E

5 β G 4 H $ 2 1 V B % 6 X 7 T ¥ R @ D F 0 & 9 Y J ^ O 8 M € L # I 3 ! U A *

G H **V** B X T R D F Y J O **M** L I U A

N O P Q R S T U -> Therefore there are eight letters between them.

95) Answer: D

Directions (96-100):

96) Answer: C

97) Answer: C

98) Answer: A

99) Answer: D

100) Answer: E

Month	Person
January	F
February	I
March	D
April	A
May	H
June	E
July	B
August	G
September	C

1. Only two persons write the exams between E and C where both of them doesn't write in the month having 31 days. I writes the exam four months before E.

Month	Case 1 Person	Case 2 Person
January		
February	I	
March		
April		
May		I
June	E	C
July		
August		
September	C	E

2. The number of persons writing the exam between C and I is one less than the number of persons writing the exam between C and F who writes the exam at a gap of three persons from H.

Month	Case 1 Person	Case 2 Person	Case 2a Person
January	F		
February	I		
March			
April		F	H
May	H	I	I
June	E	C	C
July			
August		H	F
September	C	E	E

3. A writes the exam in the month having less than 31 days and immediately after D. Atleast three persons write the exam between A and G who writes immediately after B. Hence, cases 2 and 2a get eliminated.

Month	Case 1 Person	~~Case 2~~ Person	~~Case 2a~~ Person
January	F	D	D
February	I	A	A
March	D		
April	A	F	H
May	H	I	I
June	E	C	C
July	B	G	G
August	G	H	F
September	C	E	E