All India Mock for RBI Assistant Prelims 2023 (20-21 May 2023)

Directions (1-8): Read the passage carefully and answer the given questions based upon that

Prime Minister Narendra Modi, in perhaps his first address this year on the theme of the environment, remarked that it was not the planet that was "fragile", but people and their commitment to conserving nature. From James Lovelock's Gaia hypothesis — that posited the inter-connectedness of nature — to Nobel Laureate Paul Crutzen, who warned that chemical effluents were altering the planet's atmosphere and causing harmful climate change feedback effects. Many have made the case that humanity is in the Anthropocene era and is like a geological force that is shaping the planet's destiny. However, this gives the **distorted** sense that it is a vaguely defined 'planet' that needs protecting, a notion reinforced by apocalyptic documentaries on melting glaciers.

The truth is more complex. Men started doing agriculture, the dominance of wheat and rice as food crops and the clearing of forest tracts caused the first major large-scale changes to global climate though their effects were apparent only over centuries. Atmospheric changes due to the dawn of the Industrial Age and the use of fossil fuels happened, relatively speaking, in **a blink of an eye**. What is common to both these eras is that those who suffered the most are the poor, or those with the least agency to shield themselves from a perturbed nature.

Last year, Uttarakhand saw an avalanche of rock and ice destroy two hydropower projects and cause deaths. The geology of the Himalayas, scientists have long warned, makes the region inhospitable to large mega-engineering projects and the several floods, landslides and earthquakes over the years have underlined this time and again. But while the earth rearranges itself, it does so in a manner that can be destructive and lethal to those least responsible for causing the disequilibrium. Thus, if "fragile" were to mean a brittleness needing care, then it is people and animals that need protection than a vaguely defined 'planet'. India's position of climate justice is that it cannot be denied. The right to rely on polluting fossil fuel to **ameliorate** the living conditions of most Indians who have limited access to reliable energy. Thus, India will continue to fire coal plants, raze forests for industry and build roads in fraught geology — in other words, put the lives of millions of the vulnerable at climate-risk in the pursuit of economic development. India's commitment to net-zero is set decades into the future at 2070. Unknown characterise climate science and India, given its size and population, will be disproportionately vulnerable. It must accelerate and prioritise the _____ to energy sources that are minimally perturbing to the natural balance because and on this the science is certain the planet, which may be in a form incomprehensible at present, will long outlast its current residents.

Q1. How the evolution of mankind has brought destruction to the planet?
(a) Inconsiderate usage of natural resources by the various governments for building up their infrastructures
(b) Men's embrace of agriculture and growth over the years, especially in the cultivation of wheat and rice, has been demanding clearing up of forest land
(c) With the inception of industrialization and the growing demand for fossil fuels.
(d) Only (a) and (b)
(e) Only (b) and (c)

Q2. Why the mega-engineering projects are not recommended in the Himalayan region?
(a) Because of the geography of Himalaya which makes it quite prone to landslides, earthquakes and floods.
(b) The extreme weather of Himalaya is hostile to any kind of engineering project.
(c) The low density of population is one of the adversities of building any project that requires human resource.
(d) The territorial dispute especially between India and China is one of the hurdles in building any project there.
(e) None of these

Q3. Which of the following sentences is false according to the passage?
(a) PM Modi alleged people by calling their behaviour fragile towards conserving nature.
(b) The human footprint on the environment and geology is shaping the planet's destiny.
(c) Gaia hypothesis postulates the interconnectedness of nature
(d) Only (a) and (b)
(e) All of these

Q4. How does India share the responsibility for climate deterioration?
(a) By continuing the execution of coal plants and putting the infrastructure and industry over geology.
(b) India's commitment to net zero has been set in 2070's decade
(c) By depending itself on fossil fuel to improve their living conditions.
(d) Only (a) and (c)
(e) All of these

Q5. In the passage an idiom is given "**in a blink of an eye**", what does it mean?
(a) that it happens very quickly
(b) Happens without much effort
(c) Something that takes too much effort to complete
(d) That needs proper surveillance
(e) None of these

Q6. Which of the following words can fit into the given blank provided in the passage?
(a) conclude
(b) transition
(c) certainty
(d) reprieve
(e) None of these

Q7. Which of the following words can replace "ameliorate" highlighted in the passage?
(a) improve
(b) enhance
(c) raise
(d) All of these
(e) None of these

Q8. Which of the following words is the opposite of "distorted" highlighted in the passage?
(a) Accurate
(b) twisted
(c) wrecked
(d) deformed
(e) None of these

Directions (9-14): In each question, two sentences are given each containing a blank. Choose the appropriate word from the given options that can fit into both of the blanks perfectly.

Q9.
(I) A company's primary goal is to replace a consumer's _____ with longing
(II) He is happy only with you otherwise he remains _____ all the time.
(a) apathy
(b) inputs
(c) destitute
(d) command
(e) blessing

Q10.
(I) At the clothing store, the salespeople tend to _____ in conversation and pay no attention to customers.
(II) The web series makes a thriller that will _____ you to the last episode.
(a) permeable
(b) charm
(c) engross
(d) dependency
(e) fascinate

Q11.
(I) The sculptor used a/an _____ assortment of materials to create his latest piece of art.
(II) My friends are a/an _____group of individuals who can rarely agree on a single topic.
(a) eclectic
(b) eccentric
(c) fierce
(d) strategic
(e) nominal

Q12.
(I) The panel of judges tasted each _____ on the contestants' table before they announced the winner of the pie contest.
(II) The woman's _____ of her income tax forms to the IRS was received after the deadline so she had to pay a late fine
(a) resilience
(b) contour
(c) automated
(d) submission
(e) salient

Q13.
(I) Personally, I prefer _____ stories, as it is much more fun to read the product of someone's creativity.
(II) While a _____ book like Lord of the Rings is fun to read because the imaginary places and characters are intriguing.
(a) fictional
(b) rudimentary
(c) asynchronous
(d) anecdote
(e) reference

Q14.
(I) Protesters chained themselves to the old church in an attempt to stop the construction crew from being able to _____ it.
(II) The railroad workers stared at the boulder for a long time, trying to decide the best way to _____ with explosives.
(a) embed
(b) demolish
(c) hold
(d) grinded
(e) clutch

Q15. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.
(a) The permeable material allowed a large amount of water to seep through.
(b) Because he never brushes or flosses, the man's teeth are caked with disgusting crud.
(c) Harsh winter weather can replace the skin's tenderness with dry and chap layers.
(d) The pillow's softness made the man feel as if he was sleeping on a cloud.
(e) All are correct

Q16. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.
(a) The breakfast special allowed me to substitute sausage links for crisp bacon.
(b) Do you think the singer's song-leaking gambit will pay off with huge album sales?
(c) The general's plan did not pay off, and soon we were surrounded by enemy soldiers.
(d) If the prosecutor's ploy does not work, a guilty man could go free.
(e) All are correct

Q17. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.

(a) The daughter attempt to use the divide and conquer trick to get something from her father.

(b) The comedian didn't have a skit prepared, but his last-ditch act was just as funny as his planned routines.

(c) Skilled at improvisation, the chef is great at coming up with last-minute meals that are unplanned yet tasty.

(d) Covering the principal's office in sticky notes was a good spoof for us, but a frustrating ordeal for him.

(e) All are correct

Q18. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.

(a) When I am online, I often feel there is a conspiracy by government organizations to track my every click.

(b) The government enacted the laws to deter it's enemies from challenging its authority.

(c) Because the pyramid scheme is nothing but a scam, I will not invest in it.

(d) Many of Nature's most vulnerable species depend on cunning camouflage to protect them from predators

(e) All are correct

Q19. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.

(a) After being offered a million dollars to betray his country, Eric agreed to spy for Russia.

(b) Once the story broke that the head of the CIA was arrested, pandemonium broke loose for the ranks of government.

(c) If the magazine editor believes the picture is a hoax, he will not publish it.

(d) The fake fire was a hoax used by the police to lure the suspect out of his hotel room.

(e) All are correct

Q20. In each question four sentences are given, in which one can be incorrect. Choose the incorrect one as your answer. If all the sentences are correct, choose "All are correct" as your answer.

(a) Because that horse has a tendency to falter at the gate, the odds that he will win the race are pretty low.

(b) Despite the fact that ten prospects in a row had declined Paul's offer of a complimentary carpet cleaning, he didn't lose his motivation.

(c) Claire was afraid her voice would trembled if she delivered the eulogy, so she persuaded her brother to do it instead

(d) Since this is the final race in the meet, you'll be racing against the best.

(e) All are correct

Directions (21-25): In the following questions two columns are given containing three 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(s) in which the sentences/phrases can be joined to form a grammatically and contextually correct sentence. If none of the options given forms a correct sentence after combination, mark "None of these" as your answer.

Q21. COLUMN I

(A) World War Two was the largest conflict in human history

(B) Because the military leader had hundreds of thousands of troops at his command

(C) Just as the altercation was about to become violent

COLUMN II

(D) your people by any means of necessary

(E) though it is of course quite a peaceful one

(F) costing millions of lives across the globe.

(a) B-E

(b) A-F

(c) B-D, A-E

(d) C-F

(e) A-C, B-D, C-F

Q22. COLUMN I

(A) The wonderful duality of human nature allowed people to feel

(B) In order for the team to perform a complex task

(C) After years of home cooked meals prepared by mom

COLUMN II

(D) all members must collaborate with each other.

(E) conflicting emotions at the same time.

(F) allows her to transform into any person she sees

(a) B-E

(b) A-F

(c) B-D, A-E

(d) C-F

(e) A-C, B-D, C-F

Q23. COLUMN I

(A) To accommodate customers with late work schedules

(B) As soon as the flight attendant announced we could lean back

(C) Scientists performed the experiment many times

COLUMN II

(D) I lowered my seat to a recumbent position.

(E) but every time the results varied.

(F) the store is extending its hours until ten in the evening Monday through Friday.

(a) B-E

(b) A-F

(c) B-D, A-E

(d) C-F

(e) A-F, B-D, C-E

Q24. COLUMN I

(A) When Rick was called upon to prosecute the mob boss

(B) Because sales have been sluggish

(C) To actuate the marathon

COLUMN II

(D) the race supervisor will fire the starting gun.

(E) the company will host an event to bring in customers.

(F) you should consider becoming either a police officer or a military sniper.

(a) B-E, C-D

(b) A-F

(c) B-D, A-E

(d) C-F

(e) A-F, B-D, C-E

Q25. COLUMN I

(A) A recent amendment to the Constitution of India

(B) The cold air nipped through the permeable stockings

(C) Since the new attendance forms supersede the previous documents

COLUMN II

(D) allow access to his medical records.

(E) give us more time to explore the complicated subjects.

(F) please shred all of the old forms.

(a) B-E, C-D

(b) A-F

(c) B-D, A-E

(d) C-F

(e) A-F, B-D, C-E

Directions (26-30): In each question four words are highlighted in bold, which may or may not be in a correct place. Choose the rearrangement that is required to make the sentence grammatically and contextually meaningful.

Q26. Michael **assume** (A) the **pinnacle** (B)of his sales career when he was **selected** (C)to **reached** (D) the role of department store manager.

(a) A-D

(b) B-C, A-D

(c) C-D

(d) A-B, C-D

(e) No rearrangement required

Q27. After the war, **desperation** (A) seemed to **pervade** (B) throughout the **destroyed** (C)country as **thousands** (D)found themselves without food or shelter

(a) A-D

(b) B-C, A-D

(c) C-D

(d) A-B, C-D

(e) No rearrangement required

Q28. In the **finishing** (A) school, all young ladies must take a class that **necessary** (B)on **elocution** (C) so they have the skills **focuses** (D)to hold proper conversations

(a) A-D

(b) B-C, A-D

(c) B-D

(d) A-B, C-D

(e) No rearrangement required

Q29. Bree hated the **speaking** (A)portion of her Spanish exam because while she **knew** (B)how to write the words on paper, **verbal** (C)the out loud was far more **difficult** (D).

(a) A-C

(b) B-C, A-D

(c) B-D

(d) A-B, C-D

(e) No rearrangement required

Q30. As the teacher gave **instructions**, (A)she was careful to **enunciate** (B) each step of the **process** (C) so her young students would not be **confused** (D).

(a) A-D

(b) B-C, A-D

(c) B-D

(d) A-B, C-D

(e) No rearrangement required

Directions (31-35): Read the pie chart given below and answer the following question.

The pie chart given below shows the percentage of students participated in annual function from different classes.
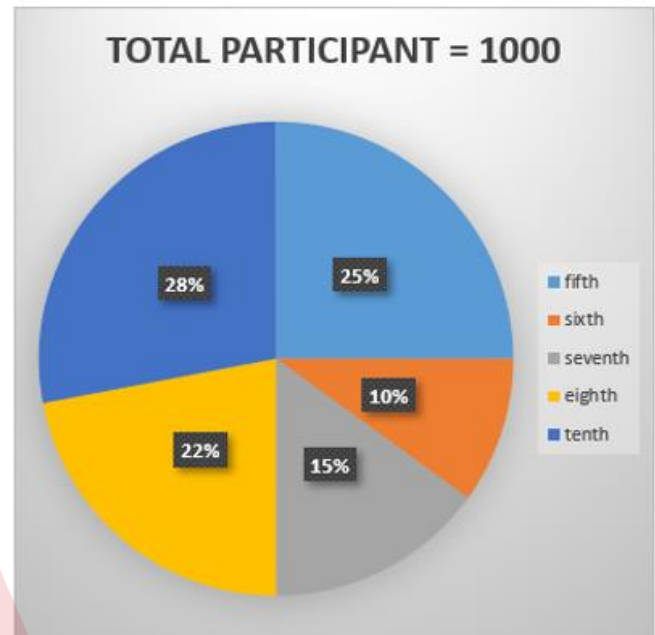
Q31. Find the difference of average number of students participated from 5th and 10th together and the average number of students participated from 8th and 6th together.

(a) 105

(b) 106

(c) 107

(d) 109

(e) 110

Q32. Find the central angle of student participated form 7th.

(a) 54°

(b) 72°

(c) 108°

(d) 90°

(e) 44°

Q33. Find the respective ratio of students participated from 5th to student participated from 8th and 10th together.

(a) 1:2

(b) 2:1

(c) 3:2

(d) 2:3

(e) 1:1

Q34. If 70% of student from 9th class participated in annual function which is 140% of student participate from class 6th. Find the total number of students in 9th class.
(a) 200
(b) 100
(c) 150
(d) 120
(e) 180

Q35. Find students participated from 6th and 7th together is what percent of students participated from 5th class.
(a) 100%
(b) 150%
(c) 0%
(d) 300%
(e) 200%

Directions (36-40): In each of these questions a number series is given. Find what comes at the place of question (?) mark.

Q36. 1, 0.25, 0.125, 0.125, 0.25, ?, 8
(a) 6
(b) 2
(c) 4
(d) 0.75
(e) 1

Q37. 250, ?, 200, 40, 160, 32, 128
(a) 80
(b) 75
(c) 150
(d) 50
(e) 30

Q38. 84.8, ?, 96.80, 107.8, 120.8, 137.8, 156.8
(a) 88.8
(b) 87.8
(c) 92.8
(d) 89.8
(e) 91.8

Q39. 50, ?, 60, 85, 134, 215, 336
(a) 60
(b) 59
(c) 58
(d) 51
(e) 50

Q40. ?, 9.5, 28.5, 65.5, 126.5, 217.5, 344.5
(a) 3.5
(b) 4.5
(c) 2.5
(d) 3
(e) 4

Q41. If the ratio of speed of boat in still water to speed of stream is 3:2 and time taken by boat to travel 100 km upstream and 200 km downstream is 14 hours. Find the speed of boat in still water.
(a) 30 km/h
(b) 20 km/h
(c) 10 km/h
(d) 25 km/h
(e) 35 km/hr

Q42. There is a profit of 20% while selling an article. If the cost price of the article is reduces by 10% and the selling price is increased by Rs.120, there is profit of 100%. Find the original cost price of the article.
(a) 100
(b) 1200
(c) 2200
(d) 200
(e) 500

Q43. If the ratio of money distributed between A and B are in the ratio of 3:5 and the sum of money that they get is 8800. Find the money that A gets.
(a) 5500
(b) 1100
(c) 3300
(d) 2200
(e) 3000

Q44. Ten men or 8 women can complete a piece of work in 4 days and 5 days respectively. Find in how many days 2 men and 3 women together can complete the same piece of work.
(a) 10 days
(b) 4 days
(c) 6 days
(d) 7 days
(e) 8 days

Q45. If A spend 20% of his salary on room rent, 15% on food and 10% on travelling and rest of income he saves, then find the income if his saving is Rs.5500.
(a) 20000
(b) 30000
(c) 40000
(d) 50000
(e) 10000

Directions (46-50): In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option.

Q46. Quantity I: length of body diagonal of a cube (in cm). The surface area of a cube is 600 cm^2.
Quantity II: $10\sqrt{3}$ cm.
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or no relation

Q47.
Quantity I/ मात्रा I: $x; x^2 + 3x + 2 = 0$
Quantity II/ मात्रा II: $y; y^2 - 3y + 2 = 0$
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or no relation

Q48. Quantity I: Money C will get (in Rs.) out of Rs.1260, if money is distributed between A, B and C in respective ratio of 3: 2: 5.
Quantity II: Rs.500
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or no relation

Q49. Quantity I: Find the present age of mother (in years). A mother is twice as old as her son. If 20 years ago, the age of the mother was 10 times the age of the son.
Quantity II: Find the present age of father (in years). Ten years ago, the sum of ages of father and his son was 34 years. If the ratio of present ages of the father and son is 7:2.
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or no relation

Q50. Quantity I: A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours. If both the pipes are opened at the same time, the tank can be filled in how many hours?
Quantity II: 10 hours.
(a) Quantity I > Quantity II
(b) Quantity I < Quantity II
(c) Quantity I ≥ Quantity II
(d) Quantity I ≤ Quantity II
(e) Quantity I = Quantity II or no relation

Directions (51-60): What will come in the place of question (?) mark?

Q51. 55% of $500 + ?^2 = 4^2 \times 6^2 + 23$
(a) 18
(b) 14
(c) 16
(d) 22
(e) 12

Q52. 20.5% of $100 + 22.5\%$ of $1000 = ?$
(a) 225.5
(b) 265.5
(c) 255.5
(d) 245.5
(e) 285.5

Q53. $? + (6)^3 = (19)^2 - (10)^2$
(a) 45
(b) 51
(c) 41
(d) 49
(e) 43

Q54. $? + 820 = 295 + 365 + 434$
(a) 204
(b) 254
(c) 294
(d) 274
(e) 264

Q55. $? + 5\frac{1}{2} - 3\frac{1}{8} = 8\frac{1}{4} + 6\frac{1}{6}$
(a) 289/24
(b) 289/12
(c) 289/6
(d) 289/3
(e) 1

Q56. $\sqrt{1\% \ of \ 4300 + 5\frac{1}{6} + \frac{5}{6}} = ?$
(a) 4
(b) 3
(c) 8
(d) 6
(e) 7

Q57. $6^3 \times 45 \div 36 = ?$
(a) 300
(b) 500
(c) 480
(d) 600
(e) 270

Q58. $\frac{11}{12}$ of $240 - \frac{12}{24}$ of $120 = ?$
(a) 108
(b) 110
(c) 160
(d) 120
(e) 140

Q59. $\left(\sqrt{289} - \sqrt[3]{729} + \sqrt{4}\right)^3 = 750 + ?$
(a) 291
(b) 271
(c) 251
(d) 250
(e) 260

Q60. $\dfrac{240 \div 10 \times 135 \div 15 \times 3 \times 2 \div 36}{3} = ?$
(a) 13
(b) 15
(c) 14
(d) 12
(e) 11

Q61. If the area of square is $4/9\pi$ times the area of circle. Find the respective ratio of radius of circle to side of square.
(a) 7:3
(b) 3:7
(c) 3:2
(d) 2:3
(e) 1:1

Q62. Three friends A, B and C invested Rs.2000, Rs.5000 and Rs.8000 into a business for one year and earned a profit of Rs.30000. A, B and C give 50% 65% and 20% of their profit to charity. Find the profit donated by A is how much less than profit donated by B and C.
(a) 7000
(b) 7600
(c) 7700
(d) 7500
(e) 8000

Q63. A 500 ml of blood sample contain plasma and platelets in a ratio of 9:1. If x ml of sample is taken out and same quantity of platelets added to the sample. The ratio of plasma to platelets became 81:19. Find the value of x. (in ml)
(a) 100
(b) 75
(c) 25
(d) 50
(e) 150

Q64. In a class, there are 20 girls and 30 boys and total average weight of class is 33 kg. Total average weight of boys is 35 kg. Find the average weight of girls.
(a) 36 kg
(b) 24 kg
(c) 28 kg
(d) 30 kg
(e) 45 kg

Q65. Train A with a speed of 72 km/h starts at 10 am from Jaipur towards Delhi. Another train B with a speed of 60 km/h at 11 am starts from Delhi towards Jaipur. If both the trains meet at 2 pm. Find the distance between Jaipur to Delhi.
(a) 468 km
(b) 466 km
(c) 467 km
(d) 469 km
(e) 460 km

Directions (66-70): Study the following information carefully and answer the questions accordingly.

Nine persons were born in three different months-March to May of the same year and on three different dates, i.e., 10th, 15th, 22nd.

H was born in the month which has odd number of days and on odd number date. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. Three persons were born between F and A. V was born immediate before R is older than A. More than five persons were born between P and M who is younger than P. W is younger than P but older than A.

Q66. Who among the following was born on 22nd May?
(a) F
(b) S
(c) R
(d) M
(e) None of these

Q67. How many persons were born after S?
(a) Six
(b) Five
(c) Three
(d) Two
(e) None of these

Q68. Who among the following is just older than F?
(a) A
(b) W
(c) S
(d) H
(e) None of these

Q69. The number of persons are older than A is same as the number of persons younger than ____?
(a) V
(b) S
(c) W
(d) F
(e) None of these

Q70. Which of the following information is true about R?
(a) 15th April
(b) 10th March
(c) 22nd April
(d) 15th May
(e) None of these

Directions (71-74): Read the following data carefully and answer the questions accordingly.

Point P is 20m west of point Q. Point S is 12m east of point R. Point V is 5m north of point U which is 32m west of point T. Point Q is 15m north of point R. Point T is 5m south of point S.

Q71. What is the direction of point T with respect to point P?
(a) North-East
(b) South-East
(c) North-West
(d) South
(e) None of these

Q72. What is the shortest distance between point Q and point V?
(a) 30m
(b) 25m
(c) 15m
(d) 20m
(e) None of these

Q73. If point Z is 10m east of point V, then what is the shortest distance between point Z and point S?
(a) 17m
(b) 19m
(c) 22m
(d) 21m
(e) None of these

Q74. What is the direction of point R with respect to point U?
(a) South-West
(b) North-West
(c) North-East
(d) South
(e) None of these

Q75. The position of how many alphabets will remain unchanged if each of the alphabets in the word **'COUNTERPARTS'** is arranged in alphabetical order from left to right?
(a) One
(b) Two
(c) Three
(d) Four
(e) None

Directions (76-79): Study the following information carefully and answer the questions accordingly.

Eight boxes are placed one above the other in a stack. Three boxes are placed between box K and E which is placed either topmost or bottommost position. Four boxes are placed between G and O which is placed above box K. The number of boxes are placed below box G is one less than the number of boxes are placed above box B. Two boxes are placed between box B and S. Box V is placed above box D but below box O.

Q76. How many boxes are placed below box S?
(a) One
(b) Two
(c) Three
(d) Four
(e) None of these

Q77. Which of the following box is placed immediate below box B?
(a) K
(b) V
(c) O
(d) S
(e) None of these

Q78. How many boxes are placed between box K and D?
(a) Two
(b) Three
(c) One
(d) More than Three
(e) None

Q79. Which of the following box is placed at bottom most position?
(a) G
(b) E
(c) S
(d) V
(e) None of these

Q80. How many pairs of letters are there in the word '**HYDROPOWER**', each of which have as many letters between them in the word as they have between then in the English alphabet (From the both backward and forward direction)?
(a) Five
(b) More than six
(c) Six
(d) Four
(e) Two

Directions (81-84): In each of the questions below are given three statements followed by two conclusions number I and II. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q81. Statements:
All Water are Balloon.
No Day is a Happy.
Only a few Happy are Water.
Conclusions:
I. All balloon is happy is a possibility
II. No day is water
(a) Only II follows
(b) Only I follows
(c) Either I or II follow
(d) Both I and II follows
(e) None follows

Q82. Statements:
Some Door are Glass
No Door is Stone
All Stone are Room
Conclusions:
I. Some Glass is Stone
II. Some Room is not Door
(a) Only II follows
(b) Only I follows
(c) Either I or II follow
(d) Both I and II follows
(e) None follows

Q83. Statements:
Only a few Brown are Pink.
All Pink are White.
No White is a Yellow
Conclusions:
I. Some Brown is Yellow
II. No Brown is yellow
(a) Only II follows
(b) Only I follows
(c) Either I or II follow
(d) Both I and II follows
(e) None follows

Q84. Statements:
Only a few Cake are Pasta
Some Pasta are Burger
Some Burger are Pizza
Conclusions:
I. All cake is pasta is a possibility.
II. Some Pizza is Cake.
(a) Only II follows
(b) Only I follows
(c) Either I or II follow
(d) Both I and II follows
(e) Neither I nor II follow

Directions (85-89): Study the following information carefully and answer the questions accordingly.

Seven persons live on different floors of a multi-storied building where the ground floor is numbered as 1 and the topmost floor is numbered as 7. Each of them likes different flavours of ice-cream. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floors below the one who likes vanilla flavour. The one who likes strawberry flavour lives immediate below L who lives on an even numbered floor. F lives above Z but below O. The one who likes mango flavour lives above the one who likes blueberry flavours.

Q85. The one who likes Strawberry flavour lives on which of the following floor?
(a) 4th floor
(b) 2nd floor
(c) 1st floor
(d) 3rd floor
(e) None of these

Q86. How many persons live above Z's floor?
(a) One
(b) Two
(c) Three
(d) Four
(e) None of these

Q87. F likes which of the following flavour?
(a) Coffee
(b) Mango
(c) Strawberry
(d) Vanilla
(e) None of these

Q88. Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?
(a) C
(b) O
(c) S
(d) F
(e) Z

Q89. The number of persons live above the one who likes Blueberry flavour is same as the number of persons live below ____?
(a) O
(b) F
(c) C
(d) Z
(e) None of these

Directions (90-91): Study the following information carefully and answer the questions given below:

There are seven members in a family. There are two married couples and only three generations in the family. Z is grandmother of U, who is niece of X. Z has one son and one daughter. T is brother-in-law of X. Y is grandfather of V. U has one sibling. V is not daughter of P.

Q90. Who among the following is son of T?
(a) U
(b) Y
(c) V
(d) P
(e) None of these

Q91. How U is related to Y?
(a) Granddaughter
(b) Sister
(c) Daughter
(d) Wife
(e) None of these

Directions (92-96): In each question below is given a group of letters followed by four combinations of digits/symbols numbered (A), (B), (C) and (D). You have to find out which of the combinations correctly represents the group of letters based on the following coding system and mark the number of that combination as your answer. If none of the four combinations correctly represents the group of letters, mark (E), 'None of these', as the answer

Letter/अक्षर	H	I	T	K	R	F	A	L	E	M	J	B	Q	U
Digits/Symbol/अंक/प्रतीक	3	7	%	#	4	$	6	9	@	*	2	5	©	8

Conditions

1. If the first letter in the group is a vowel and the last letter is a consonant their codes are to be interchanged.

2. If the first letter in the group is a consonant and the last letter is a vowel both are to be coded as the code for the last letter.

3. If the first as well as the last letter is a vowel both are to be coded as the code for the first letter.

4. If the first as well as the last letter is a consonant both are to be coded as the code for the third letter of the word.

Q92. IRHMEJ
(a) 743*@2
(b) 243*@7
(c) 243*@2
(d) 743*@7
(e) None of these

Q93. ALFJHE
(a) 69$23@
(b) @9$23@
(c) 69$236
(d) @9$236
(e) None of these

Q94. FIKLRU
(a) 87#94$
(b) 57#94$
(c) 87#948
(d) $7#94$
(e) None of these

Q95. RIFMLB
(a) 7*95
(b) $7$9*$
(c) 47$*9$
(d) 7*9$
(e) None of these

Q96. UKEQHT
(a) %#@©38
(b) %#@©3%
(c) %©#@38
(d) 8#@©3%
(e) None of these

Directions (97-100): Study the following information carefully and answer the questions accordingly.

Seven persons of a company are working on seven different designations of a company viz. CEO, COO, CFO, VP, Manager, Assistant Manager (AM), and Executive. All the designations given are to be considered in a given order (CEO is considered as Senior-most and Executive is considered as the Junior-most).

K is VP of the company. There are two persons work between K and T. The number of persons senior to T is one less than the number of persons junior to P. Only one person works between S and M who is senior to P. W is just senior to V.

Q97. Who among the following is COO of the company?
(a) S
(b) P
(c) V
(d) W
(e) None of these

Q98. How many persons are junior to V?
(a) One
(b) Two
(c) Four
(d) Three
(e) None

Q99. S works on which of the following designation in the company?
(a) VP
(b) Executive
(c) AM
(d) Manager
(e) None of these

Q100. Four of the following five are alike in a certain way and so form a group. Find the one who does not belong to that group?
(a) CEO
(b) CFO
(c) VP
(d) Executive
(e) Manager

Solutions

S1. Ans.(e)
Sol. Referring to the second paragraph of the passage, we can conclude that only option (b) and (c).
Refer to the section "Men started doing agriculture, the dominance of wheat and rice as food crops and the clearing of forest tracts caused the first major large-scale changes to global climate though their effects were apparent only over centuries. Atmospheric changes due to the dawn of the Industrial Age and the use of fossil fuels happened"

S2. Ans.(a)
Sol. By referring to the first few lines of the last passage, we can infer that option (a) is the correct answer choice. For better understanding refer to the section "The geology of the Himalayas, scientists have long warned, makes the region inhospitable to large mega-engineering projects and the several floods, landslides and earthquakes over the years have underlined this time and again."

S3. Ans.(e)
Sol. After going through the first paragraph of the passage, we can conclude that all the given options are correct.

S4. Ans.(e)
Sol. To validate the answer, refer to the last paragraph where it mentions "India's position of climate justice is that it cannot be denied. The right to rely on polluting fossil fuel to ameliorate the living conditions of most Indians who have limited access to reliable energy. Thus, India will continue to fire coal plants, raze forests for industry and build roads in fraught geology — in other words, put the lives of millions of the vulnerable at climate-risk in the pursuit of economic development. India's commitment to net-zero is set decades into the future at 2070"

S5. Ans.(a)
Sol. "in a blink of an eye" means "extremely quickly"

S6. Ans.(b)
Sol. "transition" means "the process or a period of changing from one state or condition to another", thus can fit into the given blank.
Conclude: bring or come to an end.
Certainty: firm conviction that something is the case.
Reprieve: a cancellation or postponement of a punishment

S7. Ans.(d)
Sol. "ameliorate" means "to make better" thus all these words can replace it as all are synonyms.

S8. Ans.(a)
Sol. "Distorted" means "give a misleading or false account or impression of". "Accurate" which means "correct in all details; exact" is an opposite of the given word.
Wrecked means destroy or severely damage
Deformed means distort the shape or form of; make misshapen.

S9. Ans.(a)
Sol. "apathy" means "no longer happy or sad" thus can clearly fits into both of the sentences.
Inputs: what is put in, taken in, or operated on by any process or system.
Destitute: extremely poor and lacking the means to provide for oneself
Command: give an authoritative or peremptory order.
Blessings: the act of someone who blesses

S10. Ans.(c)
Sol. "engross" means "to completely capture attention or focus", thus can clearly fits into both of the sentences.
Permeable: allowing liquids or gases to pass through it
Charm: the power or quality of delighting, attracting, or fascinating others.
Dependency: a country or province controlled by another.
Fascinate: strongly attracted and interested

S11. Ans.(a)
Sol. "eclectic" means "something that is made up of various sources or styles", thus can clearly fits into both of the sentences.
Eccentric: unconventional and slightly strange.
Fierce: having or displaying an intense or ferocious aggressiveness

Strategic: relating to the identification of long-term or overall aims and interests and the means of achieving them.
Legalized: make (something that was previously illegal) permissible by law
Nominal: existing in name only

S12. Ans.(d)
Sol. "submission" means "an item brought forth before or to a group of people", thus can clearly fits into both of the sentences.
Resilience: the capacity to recover quickly from difficulties; toughness.
Contour: an outline representing or bounding the shape or form of something.
Automated: operated by largely automatic equipment
Salient: most noticeable or important.

S13. Ans.(a)
Sol. "fictional" means "grounded in fantasy: not real", thus can clearly fits into both of the sentences.
Rudimentary: involving or limited to basic principles
Asynchronous: not existing or occurring at the same time.
Anecdote: a short amusing or interesting story about a real incident or person
Reference: the action of mentioning or alluding to something

S14. Ans.(b)
Sol. "demolish" means "to destroy something, usually by tearing it down", thus can clearly fits into both of the sentences.
Embed: fix (an object) firmly and deeply in a surrounding mass.
Hold: grasp, carry, or support with one's hands
Grinded: reduce (something) to small particles or powder by crushing it

S15. Ans.(c)
Sol. Here "chap" must be replaced with "chapped", as this should be in adjective form.

S16. Ans.(e)
Sol. All sentences are correct

S17. Ans.(a)
Sol. Here "attempt" must be replaced with "attempts" as daughter is a singular noun.

S18. Ans.(b)
Sol. "it's" means "it is" so, it must be replaced with "its".

S19. Ans.(b)
Sol. "for" is wrong preposition here and must be replaced with "within"

S20. Ans.(c)
Sol. "trembled" must be replaced with "tremble" as after could/would we use base form of the verb

S21. Ans.(b)
Sol. The combination that gives meaningful sentence is A-F. The sentence will be "World War Two was the largest conflict in human history, costing millions of lives across the globe."

S22. Ans.(c)
Sol. The combinations that give meaningful sentences are: B-D, A-E. Thus the sentences will be "In order for the team to perform a complex task, all members must collaborate with each other" "The wonderful duality of human nature allowed people to feel conflicting emotions at the same time."

S23. Ans.(e)
Sol. The combinations that give meaningful sentences are: B-D, A-F, C-E. Thus the sentences will be "To accommodate customers with late work schedules the store is extending its hours until ten in the evening Monday through Friday." "Scientists performed the experiment many times but every time the results varied." And "As soon as the flight attendant announced we could lean back I lowered my seat to a recumbent position."

S24. Ans.(a)
Sol. The combinations that give meaningful sentences are: B-E, C-D. Thus the sentences will be "Because sales have been sluggish, the company will host an event to bring in customers." "To actuate the marathon the race supervisor will fire the starting gun."

S25. Ans.(d)
Sol. The combination that gives meaningful sentence is C-F. The sentence will be "Since the new attendance forms supersede the previous documents, please shred all of the old forms"

S26. Ans.(a)
Sol. The rearrangement that is needed to make the sentence coherent is A-D. Thus, the sentence will be "Michael reached the pinnacle of his sales career when he was selected to assume the role of department store manager."

S27. Ans.(e)
Sol. The sentence is correct and does not require any rearrangement.

S28. Ans.(c)
Sol. The rearrangement that is needed to make the sentence coherent is B-D. Thus, the sentence will be "In the finishing school, all young ladies must take a class that focuses on elocution so they have the skills necessary to hold proper conversations."

S29. Ans.(a)
Sol. The rearrangement that is needed to make the sentence coherent is A-C. Thus, the sentence will be "Bree hated the verbal portion of her Spanish exam because while she knew how to write the words on paper, speaking the out loud was far more difficult."

S30. Ans.(e)
Sol. The sentence is correct and does not require any rearrangement.

S31. Ans.(a)
Sol.

Required difference
$$= \frac{\frac{25}{100} \times 1000 + \frac{28}{100} \times 1000}{2} - \frac{\frac{22}{100} \times 1000 + \frac{10}{100} \times 1000}{2} = 265 - 160 = 105$$

S32. Ans.(a)
Sol.

Central angle $= \frac{15 \times 360}{100} = 54°$

S33. Ans.(a)
Sol.

Required ratio $= 1000 \times \frac{25}{100} : 1000 \times \left(\frac{22}{100} + \frac{28}{100} \right)$

$= 250 : 500$

$= 1 : 2$

S34. Ans.(a)
Sol.

Student participated from 9th class $= \frac{140}{100} \times 1000 \times \frac{10}{100} = 140$

Let the total number of student in class 9th is x

$\frac{70}{100} \times x = 140$

$x = 200$

S35. Ans.(a)
Sol.

Required percent $= \frac{1000 \times \frac{10}{100} + 1000 \times \frac{15}{100}}{1000 \times \frac{25}{100}} \times 100 = 100\%$

S36. Ans.(e)
Sol.

Patter of series –

$1 \times .25 = 0.25$

$0.25 \times .5 = 0.125$

$0.125 \times 1 = 0.125$

$0.125 \times 2 = 0.25$

$0.25 \times 4 = 1$

$1 \times 8 = 8$

S37. Ans.(d)
Sol.

Patter of series –

$250 \div 5 = 50$

$50 \times 4 = 200$

$200 \div 5 = 40$

$40 \times 4 = 160$

$160 \div 5 = 32$

$32 \times 4 = 128$

S38. Ans.(d)
Sol.

Patter of series –

$84.8 + 5 = 89.8$

$89.8 + 7 = 96.80$

$96.8 + 11 = 107.8$

$107.8 + 13 = 120.8$

$120.8 + 17 = 137.8$

$137.8 + 19 = 156.8$

S39. Ans.(d)
Sol.

Patter of series –

$50 + (1^2) = 51$

$51 + (3^2) = 60$

$60 + (5^2) = 85$

$85 + (7^2) = 134$

$134 + (9^2) = 215$

$215 + (11^2) = 336$

S40. Ans.(c)
Sol.

Patter of series –

$1^3 + 1.5 = 2.5$

$2^3 + 1.5 = 9.5$

$3^3 + 1.5 = 28.5$

$4^3 + 1.5 = 65.5$

$5^3 + 1.5 = 126.5$

$6^3 + 1.5 = 217.5$

$7^3 + 1.5 = 344.5$

S41. Ans.(a)
Sol.

Let the speed of boat in still water and speed of stream be 3x km/h and 2x km/h respectively.

$\frac{100}{3x - 2x} + \frac{200}{3x + 2x} = 14$

$\frac{100}{x} + \frac{200}{5x} = 14$

$x = 10$

Speed of boat = 3x = 30 km/h.

S42. Ans.(d)
Sol.

Let the cost price be 100x

$\frac{100x \times \frac{90}{100}}{100x \times \frac{120}{100} + 120} = \frac{1}{2}$

$180x = 120x + 120$

$60x = 120$

$x = 2$

Cost price = Rs.200

S43. Ans.(c)
Sol.

Total money A and B have = 3x+5x=8x

$A = \frac{3x}{8x} \times 8800 = Rs.3300$

S44. Ans.(e)
Sol.

Let the efficiency of man and woman be m unit/day and w unit/day and required number of days be d days.

$10m \times 4 = 8w \times 5$

$m:w = 1:1$

$(2 \times 1 + 3 \times 1)d = 10 \times 1 \times 4$

$5d = 40$

$d = 8 \ days$

S45. Ans.(e)
Sol.

Let the salary be Rs.100x

Percentage of money he saved = 100%-20%-15%-10%=55%

ATQ

$100x \times \frac{55}{100} = 5500$

$x = 100$

$income = Rs.10000$

S46. Ans.(e)
Sol.

Quantity I: Let side of cube be a cm.

Surface area of cube = $6a^2$= 600

a=10 cm

Diagonal = $10\sqrt{3}$ cm

Quantity II: $10\sqrt{3}$ cm

So, quantity I = quantity II

S47. Ans.(b)
Sol.

Quantity I: $x^2 + 3x + 2 = 0$

$x^2 + 2x + 1x + 2 = 0$

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

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

$x = -1, -2$

Quantity II: $y^2 - 3y + 2 = 0$

$y^2 - 2y - 1y + 2 = 0$

$y(y - 2) - 1(y - 2) = 0$

$(y - 1)(y - 2) = 0$

$y = 1,2$

So, quantity II > quantity I

S48. Ans.(a)
Sol.

Quantity I: money C gets = $\frac{5}{10} \times 1260 = Rs.630$

Quantity II: Rs.500

Quantity I > quantity II

S49. Ans.(a)
Sol.

Quantity I: Let the age of son = X years

Age of mother would be =2X

ATQ

10(X -20) = 2X - 20

10X - 200 = 2X - 20

10X - 2X= - 20 + 200

8X = 180

X= $\frac{180}{8}$ = 22.5 years

Age of mother = 22.5 × 2 = 45 years

Quantity II: Let the present age of the father is 7a and present age of son is 2a.

ATQ

(7a - 10) + (2a - 10) = 34

7a - 10 + 2a - 10= 34

9a = 34 + 20

9a = 54

a = 6

Present age of father = 7a= 42 years

So, quantity I > quantity II

S50. Ans.(a)
Sol.

Quantity I: Required time = $\frac{12 \times 6}{12 - 6} = 12 \ hours$

Quantity II. 10 hours

So, quantity I > quantity II

S51. Ans.(a)
Sol.

55% of 500 + $?^2= 4^2 \times 6^2 + 23$

$275 + ?^2 = 576 + 23$

$?^2 = 324$

$? = 18$

S52. Ans.(d)
Sol.

20.5 % of 100 + 22.5% of 1000 =?

20.5 + 225 =?

245.5 =?

S53. Ans.(a)
Sol.

$? + (6)^3 = (19)^2 - (10)^2$

$? + 216 = (19 + 10)(19 - 10)$

$? = 261 - 216$

$? = 45$

S54. Ans.(d)
Sol.

? +820= 295+365+434

?= 274

S55. Ans.(a)
Sol.

$? + 5\frac{1}{2} - 3\frac{1}{8} = 8\frac{1}{4} + 6\frac{1}{6}$

$? = \frac{148 + 198 + 75 - 132}{24}$

$\frac{289}{24} = ?$

S56. Ans.(e)
Sol.

$\sqrt{1\% \text{ of } 4300 + 5\frac{1}{6} + \frac{5}{6}} = ?$

$\sqrt{43 + 6} = ?$

$? = 7$

S57. Ans.(e)
Sol.

$6^3 \times 45 \div 36 = ?$

$6 \times 45 = ?$

$? = 270$

S58. Ans.(c)
Sol.

$\frac{11}{12}$ of $240 - \frac{12}{24}$ of $120 = ?$

$\frac{11}{12} \times 240 - \frac{12}{24} \times 120 = ?$

$220 - 60 = ?$

$160 = ?$

S59. Ans.(d)
Sol.

$\left(\sqrt{289} - \sqrt[3]{729} + \sqrt{4}\right)^3 = 750 + ?$

$10^3 = 750 + ?$

$? = 250$

S60. Ans.(d)
Sol.

$\frac{240 \div 10 \times 135 \div 15 \times 3 \times 2 \div 36}{3} = ?$

$\frac{\frac{240 \times 135 \times 3 \times 2}{10 \times 15 \times 36}}{3} = ?$

$12 = ?$

S61. Ans.(c)
Sol.

Let the side of square and radius of circle be a and r respectively.

$\frac{\text{area of square}}{\text{area of circle}} = \frac{4}{9\pi} = \frac{a^2}{\pi \times r^2}$

$\frac{a}{r} = \frac{2}{3}$

S62. Ans.(c)
Sol.

Respective ratio of profit of A, B and C =
$= 2000 \times 12 : 5000 \times 12 : 8000 \times 12$
$= 2 : 5 : 8$
Let profit share of A, B and C be 2x, 5x and 8x respectively.
$(2 + 5 + 8)x = 30000$
$x = 2000$
Profit share of A, B and C is Rs.4000, Rs.10000 and Rs.16000 respectively.
Profit donated by A = Rs.2000
Profit donated by B = Rs.6500
Profit donated by C = Rs.3200
Required difference = 9700-2000=Rs.7700

S63. Ans.(d)
Sol.

$\frac{500 \times \frac{9}{10} - x \times \frac{9}{10}}{500 \times \frac{1}{10} - x \times \frac{1}{10} + x} = \frac{81}{19}$

$\frac{450 - \frac{9x}{10}}{50 - \frac{x}{10} + x} = \frac{81}{19}$

$x = 50$

S64. Ans.(d)
Sol.

Let the average weight of girls be x.

$\frac{20 \times x + 30 \times 35}{50} = 33$

$20x = 1650 - 1050$

$x = 30 kg$

S65. Ans.(a)
Sol.

Let the distance between Jaipur and Delhi be x km.
Train A travels 72 km till 11 am.
Now,

$\frac{x - 72}{3} = (72 + 60)$

$x - 72 = 396$

$x = 468\ km$

S66. Ans.(d)
Sol. H was born in the month which has odd number of days and on odd number date. There are two possibilities. H was born either 15th March or 15th May. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. So in both cases F was born on 22nd March.

Month	Date	Case-1 Persons	Case-2 Persons
March	10th		
	15th	H	
	22nd	F	F
April	10th		S
	15th		
	22nd	S	
May	10th		
	15th		H
	22nd		

Three persons were born between F and A. V was born immediate before R is older than A. From these conditions there are one more possibility in case-2, i.e. case-2a.

Month	Date	Case-1 Persons	Case-2 Persons	Case-2a Persons
March	10th		V	
	15th	H	R	
	22nd	F	F	F
April	10th	V	S	S
	15th	R		V
	22nd	S		R
May	10th	A	A	A
	15th		H	H
	22nd			

More than five persons were born between P and M who is younger than P. From this condition case-2 will be eliminated. W is younger than P but older than A. From this condition case-1 will be eliminated and the final arrangement is-

Month	Date	Persons
March	10th	P
	15th	W
	22nd	F
April	10th	S
	15th	V
	22nd	R
May	10th	A
	15th	H
	22nd	M

M was born on 22nd May.

S67. Ans.(b)
Sol. H was born in the month which has odd number of days and on odd number date. There are two possibilities. H was born either 15th March or 15th May. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. So in both cases F was born on 22nd March.

Month	Date	Case-1 Persons	Case-2 Persons
March	10th		
	15th	H	
	22nd	F	F
April	10th		S
	15th		
	22nd	S	
May	10th		
	15th		H
	22nd		

Three persons were born between F and A. V was born immediate before R is older than A. From these conditions there are one more possibility in case-2, i.e. case-2a.

Month	Date	Case-1 Persons	Case-2 Persons	Case-2a Persons
March	10th		V	
	15th	H	R	
	22nd	F	F	F
April	10th	V	S	S
	15th	R		V
	22nd	S		R
May	10th	A	A	A
	15th		H	H
	22nd			

More than five persons were born between P and M who is younger than P. From this condition case-2 will be eliminated. W is younger than P but older than A. From this condition case-1 will be eliminated and the final arrangement is-

Month	Date	Persons
March	10th	P
	15th	W
	22nd	F
April	10th	S
	15th	V
	22nd	R
May	10th	A
	15th	H
	22nd	M

Five persons were born after S.

S68. Ans.(b)
Sol. H was born in the month which has odd number of days and on odd number date. There are two possibilities. H was born either 15th March or 15th May. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. So in both cases F was born on 22nd March.

Month	Date	Case-1 Persons	Case-2 Persons
March	10th		
	15th	H	
	22nd	F	F
April	10th		S
	15th		
	22nd	S	
May	10th		
	15th		H
	22nd		

Three persons were born between F and A. V was born immediate before R is older than A. From these conditions there are one more possibility in case-2, i.e. case-2a.

Month	Date	Case-1 Persons	Case-2 Persons	Case-2a Persons
March	10th		V	
	15th	H	R	
	22nd	F	F	F
April	10th	V	S	S
	15th	R		V
	22nd	S		R
May	10th	A	A	A
	15th		H	H
	22nd			

More than five persons were born between P and M who is younger than P. From this condition case-2 will be eliminated. W is younger than P but older than A. From this condition case-1 will be eliminated and the final arrangement is-

Month	Date	Persons
March	10th	P
	15th	W
	22nd	F
April	10th	S
	15th	V
	22nd	R
May	10th	A
	15th	H
	22nd	M

W is just older than F.

S69. Ans.(d)
Sol. H was born in the month which has odd number of days and on odd number date. There are two possibilities. H was born either 15th March or 15th May. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. So in both cases F was born on 22nd March.

Month	Date	Case-1 Persons	Case-2 Persons
March	10th		
	15th	H	
	22nd	F	F
April	10th		S
	15th		
	22nd	S	
May	10th		
	15th		H
	22nd		

Three persons were born between F and A. V was born immediate before R is older than A. From these conditions there are one more possibility in case-2, i.e. case-2a.

Month	Date	Case-1 Persons	Case-2 Persons	Case-2a Persons
March	10th		V	
	15th	H	R	
	22nd	F	F	F
April	10th	V	S	S
	15th	R		V
	22nd	S		R
May	10th	A	A	A
	15th		H	H
	22nd			

More than five persons were born between P and M who is younger than P. From this condition case-2 will be eliminated. W is younger than P but older than A. From this condition case-1 will be eliminated and the final arrangement is-

Month	Date	Persons
March	10th	P
	15th	W
	22nd	F
April	10th	S
	15th	V
	22nd	R
May	10th	A
	15th	H
	22nd	M

Six persons are older than A and younger than F.

S70. Ans.(c)
Sol. H was born in the month which has odd number of days and on odd number date. There are two possibilities. H was born either 15th March or 15th May. Three persons were born between H and S. F was born on the date which is not multiple of 5 but before S. So in both cases F was born on 22nd March.

Month	Date	Case-1 Persons	Case-2 Persons
March	10th		
	15th	H	
	22nd	F	F
April	10th		S
	15th		
	22nd	S	
May	10th		
	15th		H
	22nd		

Three persons were born between F and A. V was born immediate before R is older than A. From these conditions there are one more possibility in case-2, i.e. case-2a.

Month	Date	Case-1 Persons	Case-2 Persons	Case-2a Persons
March	10th		V	
	15th	H	R	
	22nd	F	F	F
April	10th	V	S	S
	15th	R		V
	22nd	S		R
May	10th	A	A	A
	15th		H	H
	22nd			

More than five persons were born between P and M who is younger than P. From this condition case-2 will be eliminated. W is younger than P but older than A. From this condition case-1 will be eliminated and the final arrangement is-

Month	Date	Persons
March	10th	P
	15th	W
	22nd	F
April	10th	S
	15th	V
	22nd	R
May	10th	A
	15th	H
	22nd	M

R was born on 22nd April.

S71. Ans.(b)
Sol.
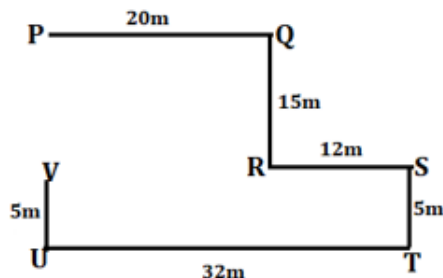
Point T is in south-east direction of point P.

S72. Ans.(b)
Sol.

By using Pythagoras theorem,
Shortest distance between V and Q = $\sqrt{(15)^2 + (20)^2}$ = 25m

S73. Ans.(c)
Sol.

Distance between point Z and point S = 10+12 = 22m

S74. Ans.(c)
Sol.

Point R is in north east direction of point U.

S75. Ans.(c)
Sol. Given Word- COUNTERPARTS
After Arrangement-ACE**N**OP**R**RST**T**U

S76. Ans.(b)
Sol. Three boxes are placed between box K and E which is placed either topmost or bottommost position. There are two possibilities case-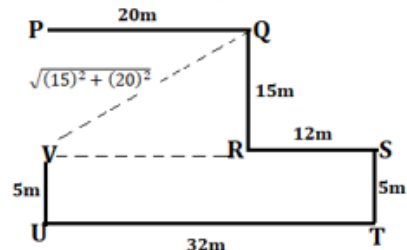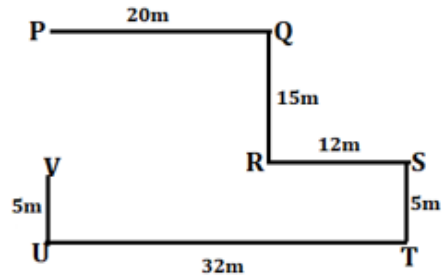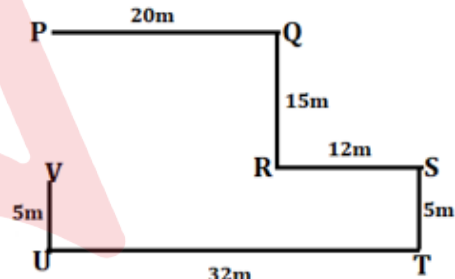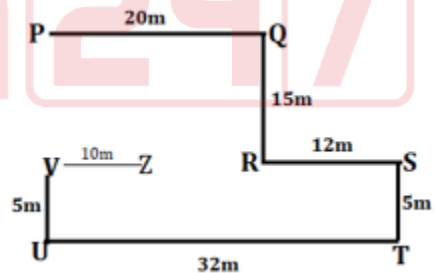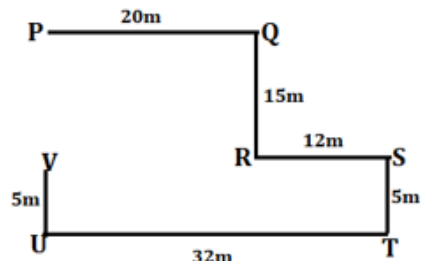1 and case-2. Four boxes are placed between G and O which is placed above box K. From this condition two more cases will come, i.e. case-1a and case-2a.

Case-1	Case-2	Case-1a	Case-2a
Boxes	Boxes	Boxes	Boxes
E	O	E	
O			O
		O	
	K		K
K		K	
	G		
G			G
	E	G	E

The number of boxes are placed below box G is one less than the number of boxes are placed above box B. From this condition case-2 will be eliminated.

Case-1	Case-1a	Case-2a
Boxes	Boxes	Boxes
E	E	
O	B	O
B	O	B
		K
K	K	
G		G
	G	E

Two boxes are placed between box B and S. From this condition case-1a will be eliminated. Box V is placed above box D but below box O. from this condition case-2a will be eliminated and the final arrangement is-

Boxes
E
O
B
V
K
S
G
D

Two boxes are placed below box S.

S77. Ans.(b)
Sol. Three boxes are placed between box K and E which is placed either topmost or bottommost position. There are two possibilities case-1 and case-2. Four boxes are placed between G and O which is placed above box K. From this condition two more cases will come, i.e. case-1a and case-2a.

Case-1	Case-2	Case-1a	Case-2a
Boxes	Boxes	Boxes	Boxes
E	O	E	
O			O
		O	
	K		K
K		K	
	G		
G			G
	E	G	E

The number of boxes are placed below box G is one less than the number of boxes are placed above box B. From this condition case-2 will be eliminated.

Case-1	Case-1a	Case-2a
Boxes	Boxes	Boxes
E	E	
O	B	O
B	O	B
		K
K	K	
G		G
	G	E

Two boxes are placed between box B and S. From this condition case-1a will be eliminated. Box V is placed above box D but below box O. from this condition case-2a will be eliminated and the final arrangement is-

Boxes
E
O
B
V
K
S
G
D

Box V is placed immediate below box B.

S78. Ans.(a)

Sol. Three boxes are placed between box K and E which is placed either topmost or bottommost position. There are two possibilities case-1 and case-2. Four boxes are placed between G and O which is placed above box K. From this condition two more cases will come, i.e. case-1a and case-2a.

Case-1 Boxes	Case-2 Boxes	Case-1a Boxes	Case-2a Boxes
E	O	E	
O			O
		O	
	K		K
K		K	
	G		
G			G
	E	G	E

The number of boxes are placed below box G is one less than the number of boxes are placed above box B. From this condition case-2 will be eliminated.

Case-1 Boxes	Case-1a Boxes	Case-2a Boxes
E	E	
O	B	O
B	O	B
		K
K	K	
G		G
	G	E

Two boxes are placed between box B and S. From this condition case-1a will be eliminated. Box V is placed above box D but below box O. from this condition case-2a will be eliminated and the final arrangement is-

Boxes
E
O
B
V
K
S
G
D

Two boxes placed between box K and D.

S79. Ans.(e)

Sol. Three boxes are placed between box K and E which is placed either topmost or bottommost position. There are two possibilities case-1 and case-2. Four boxes are placed between G and O which is placed above box K. From this condition two more cases will come, i.e. case-1a and case-2a.

Case-1 Boxes	Case-2 Boxes	Case-1a Boxes	Case-2a Boxes
E	O	E	
O			O
		O	
	K		K
K		K	
	G		
G			G
	E	G	E

The number of boxes are placed below box G is one less than the number of boxes are placed above box B. From this condition case-2 will be eliminated.

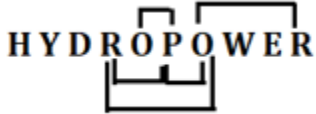| Case-1 Boxes	Case-1a Boxes	Case-2a Boxes
E	E	
O	B	O
B	O	B
		K
K	K	
G		G
	G	E

Two boxes are placed between box B and S. From this condition case-1a will be eliminated. Box V is placed above box D but below box O. from this condition case-2a will be eliminated and the final arrangement is-

Boxes
E
O
B
V
K
S
G
D

Box D is placed at bottommost position.

S80. Ans.(a)
Sol.

H Y D R O P O W E R

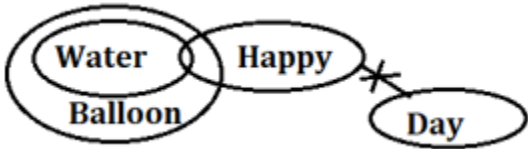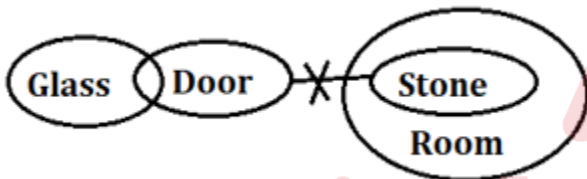**S81. Ans.(b)**
Sol.

For I: Some balloon is happy is a definitely true, so in the case of possibility all balloon is happy is true.
For II: There is no direct relation between day and water. Hence we cannot conclude it. So this conclusion is false.

S82. Ans.(a)
Sol.

For I: There is no direct relation between Glass and Stone. Hence the conclusion is false.
For II: It is given no door is stone and all stone is room, hence it is clear that some part of room is not door. Hence this conclusion is true.

S83. Ans.(c)
Sol.

For I and II: There are no direct relation between Brown and yellow, so individually both the conclusion is false. But by combining these conclusions we can see that they satisfy the condition of Complimentary pair (Some + No): So, Either Or is the answer.

S84. Ans.(e)
Sol.
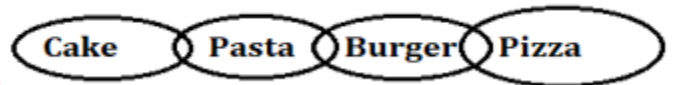
For I: It is given only some part of cake is pasta, So, all cake is pasta is not possible. Hence this conclusion is false.
For II: No direct relation between Cake and Pizza. Hence this conclusion is false.

S85. Ans.(c)
Sol. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. There are two possibilities.

Floors	Case-1 Persons	Case-1 Flavours	Case-2 Persons	Case-2 Flavours
7		Coffee		
6			W	Chocolate
5	S			
4	W	Chocolate		
3				Coffee
2				
1			S	

The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floor below the one who likes vanilla flavour. From this condition case-1 will be eliminated.

	Case-2	
Floors	Persons	Flavours
7		Vanilla
6	W	Chocolate
5		
4	C	Oreo
3		Coffee
2		
1	S	

The one who likes strawberry flavour lives immediate below L who likes on an even numbered floor. F lives above Z but below O. The one who likes mango flavour lives above the one who likes blueberry flavours. The final arrangement is-

Floors	Persons	Flavours
7	O	Vanilla
6	W	Chocolate
5	F	Mango
4	C	Oreo
3	Z	Coffee
2	L	Blueberry
1	S	Strawberry

S likes strawberry flavour and lives on first floor.

S86. Ans.(d)
Sol. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. There are two possibilities.

	Case-1		Case-2	
Floors	Persons	Flavours	Persons	Flavours
7		Coffee		
6			W	Chocolate
5	S			
4	W	Chocolate		
3				Coffee
2				
1			S	

The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floor below the one who likes vanilla flavour. From this condition case-1 will be eliminated.

	Case-2	
Floors	Persons	Flavours
7		Vanilla
6	W	Chocolate
5		
4	C	Oreo
3		Coffee
2		
1	S	

The one who likes strawberry flavour lives immediate below L who likes on an even numbered floor. F lives above Z but below O. The one who likes mango flavour lives above the one who likes blueberry flavours. The final arrangement is-

Floors	Persons	Flavours
7	O	Vanilla
6	W	Chocolate
5	F	Mango
4	C	Oreo
3	Z	Coffee
2	L	Blueberry
1	S	Strawberry

Four persons live above Z's floor.

S87. Ans.(b)
Sol. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. There are two possibilities.

	Case-1		Case-2	
Floors	Persons	Flavours	Persons	Flavours
7		Coffee		
6			W	Chocolate
5	S			
4	W	Chocolate		
3				Coffee
2				
1			S	

The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floor below the one who likes vanilla flavour. From this condition case-1 will be eliminated.

<table>
<tr><td colspan="3">Case-2</td></tr>
<tr><td>Floors</td><td>Persons</td><td>Flavours</td></tr>
<tr><td>7</td><td></td><td>Vanilla</td></tr>
<tr><td>6</td><td>W</td><td>Chocolate</td></tr>
<tr><td>5</td><td></td><td></td></tr>
<tr><td>4</td><td>C</td><td>Oreo</td></tr>
<tr><td>3</td><td></td><td>Coffee</td></tr>
<tr><td>2</td><td></td><td></td></tr>
<tr><td>1</td><td>S</td><td></td></tr>
</table>

The one who likes strawberry flavour lives immediate below L who likes on an even numbered floor. F lives above Z but below O. The one who likes mango flavour lives above the one who likes blueberry flavours. The final arrangement is-

Floors	Persons	Flavours
7	O	Vanilla
6	W	Chocolate
5	F	Mango
4	C	Oreo
3	Z	Coffee
2	L	Blueberry
1	S	Strawberry

F likes Mango flavour.

S88. Ans.(a)
Sol. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. There are two possibilities.

Floors	Case-1 Persons	Case-1 Flavours	Case-2 Persons	Case-2 Flavours
7		Coffee		
6			W	Chocolate
5	S			
4	W	Chocolate		
3				Coffee
2				
1			S	

The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floor below the one who likes vanilla flavour. From this condition case-1 will be eliminated.

Floors	Persons	Flavours
7	O	Vanilla
6	W	Chocolate
5	F	Mango
4	C	Oreo
3	Z	Coffee
2	L	Blueberry
1	S	Strawberry

Except C, all of them are live on odd number floor.

S89. Ans.(e)
Sol. W likes chocolate flavour and lives on an even number floor above 3rd floor. Two persons live between the one who likes coffee flavour and W. S lives two floors below the one who likes coffee flavours. There are two possibilities.

Floors	Case-1 Persons	Case-1 Flavours	Case-2 Persons	Case-2 Flavours
7		Coffee		
6			W	Chocolate
5	S			
4	W	Chocolate		
3				Coffee
2				
1			S	

The number of persons live above S is same as the number of persons live below the one who likes vanilla flavour. C likes Oreo flavour and lives three floor below the one who likes vanilla flavour. From this condition case-1 will be eliminated.

Floors	Persons	Flavours
		Case-2	

| Floors	Persons	Flavours
7		Vanilla
6	W	Chocolate
5		
4	C	Oreo
3		Coffee
2		
1	S	

The one who likes strawberry flavour lives immediate below L who likes on an even numbered floor. F lives above Z but below O. The one who likes mango flavour lives above the one who likes blueberry flavours. The final arrangement is-

Floors	Persons	Flavours
7	O	Vanilla
6	W	Chocolate
5	F	Mango
4	C	Oreo
3	Z	Coffee
2	L	Blueberry
1	S	Strawberry

Five persons live above the one who likes Blueberry flavour and same number of persons live below W.
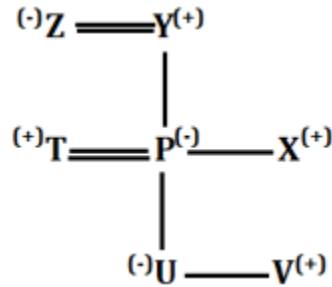
S90. Ans.(c)
Sol.
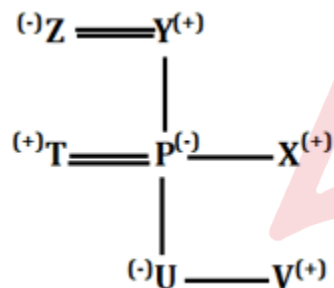
V is the son of T.

S91. Ans.(a)
Sol.

U is granddaughter of Y.

S92. Ans.(b)
Sol. By using condition 1- IRHMEJ= 243*@7

S93. Ans.(c)
Sol. By using condition 3- ALFJHE= 69$236

S94. Ans.(c)
Sol. By using condition 2- FIKLRU= 87#948

S95. Ans.(d)
Sol. By using condition 4- RIFMLB = 7*9$

S96. Ans.(a)
Sol. By using condition 1- UKEQHT = %#@©38

S97. Ans.(d)
Sol. K is VP of the company. Two persons work between K and T. There are two possibilities. T is either CEO or Executive of the company.

Designations	Case-1 Persons	Case-2 Persons
CEO	T	
COO		
CFO		
VP	K	K
Manager		
AM		
Executive		T

The number of persons senior to T is one less than the number of persons junior to P. From this condition case-2 will be eliminated.

	Case-1	~~Case-2~~
Designations	Persons	~~Persons~~
CEO	T	
COO		
CFO		
VP	K	~~K~~
Manager		
AM	P	
Executive		~~T~~

Only one person works between S and M who is senior to P. W is just senior to V. So, the final arrangement is-

Designations	Persons
CEO	T
COO	W
CFO	V
VP	K
Manager	M
AM	P
Executive	S

W is COO of the company.

S98. Ans.(c)
Sol. K is VP of the company. Two persons work between K and T. There are two possibilities. T is either CEO or Executive of the company.

	Case-1	Case-2
Designations	Persons	Persons
CEO	T	
COO		
CFO		
VP	K	K
Manager		
AM		
Executive		T

The number of persons senior to T is one less than the number of persons junior to P. From this condition case-2 will be eliminated.

	Case-1	~~Case-2~~
Designations	Persons	~~Persons~~
CEO	T	
COO		
CFO		
VP	K	~~K~~
Manager		
AM	P	
Executive		~~T~~

Only one person works between S and M who is senior to P. W is just senior to V. So, the final arrangement is-

Designations	Persons
CEO	T
COO	W
CFO	V
VP	K
Manager	M
AM	P
Executive	S

Four persons are junior to V.

S99. Ans.(b)
Sol. K is VP of the company. Two persons work between K and T. There are two possibilities. T is either CEO or Executive of the company.

	Case-1	Case-2
Designations	Persons	Persons
CEO	T	
COO		
CFO		
VP	K	K
Manager		
AM		
Executive		T

The number of persons senior to T is one less than the number of persons junior to P. From this condition case-2 will be eliminated.

	Case-1	~~Case-2~~
Designations	Persons	~~Persons~~
CEO	T	
COO		
CFO		
VP	K	~~K~~
Manager		
AM	P	
Executive		~~T~~

Only one person works between S and M who is senior to P. W is just senior to V. So, the final arrangement is-

Designations	Persons
CEO	T
COO	W
CFO	V
VP	K
Manager	M
AM	P
Executive	S

S works as executive in the company.

S100. Ans.(e)

Sol. K is VP of the company. Two persons work between K and T. There are two possibilities. T is either CEO or Executive of the company.

| | Case-1 | Case-2 |
Designations	Persons	Persons
CEO	T	
COO		
CFO		
VP	K	K
Manager		
AM		
Executive		T

The number of persons senior to T is one less than the number of persons junior to P. From this condition case-2 will be eliminated.

| | Case-1 | Case-2 |
Designations	Persons	Persons
CEO	T	
COO		
CFO		
VP	K	K
Manager		
AM	P	
Executive		T

Only one person works between S and M who is senior to P. W is just senior to V. So, the final arrangement is-

Designations	Persons
CEO	T
COO	W
CFO	V
VP	K
Manager	M
AM	P
Executive	S

Except option (e), all other options are right combination of designation and person.

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