NABARD Office Attendant Previous Year Paper (2019)

Direction (1-5): Find out the missing terms in the given number series.

Q1. 16, 0, 8, 4, 6, ?
(a) 4
(b) 1
(c) 3
(d) 2
(e) 5

Q2. 375000, 75000, 7500, 500, ?, 1
(a) 10
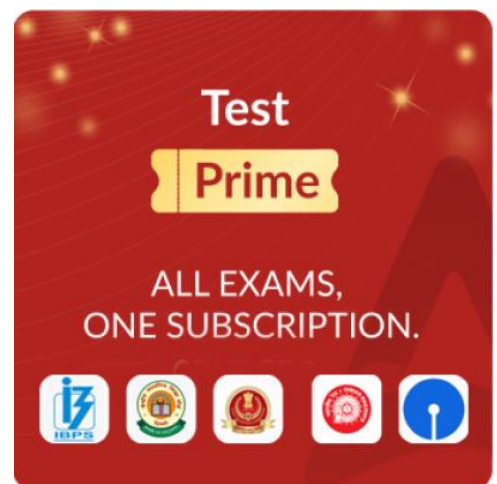(b) 25
(c) 50
(d) 100
(e) 1

Q3. 10, 24, 52, 108, 220, ?
(a) 456
(b) 462
(c) 444
(d) 460
(e) 464

Q4. 456, 469, 484, 501, 520, ?
(a) 541
(b) 524
(c) 532
(d) 536
(e) 539

Q5. 36, 72, 24, 96, ?, 115.2
(a) 19.4
(b) 19.2
(c) 18.4
(d) 8.1
(e) 9

Q6. A man bought a mobile for Rs.13300 and spent Rs.700 on its repairing. If he sold it at profit of 20%, then find the profit (in Rs.) earned on mobile?
(a) 2800
(b) 1400
(c) 1680
(d) 700
(e) 2100

Q7. There are five consecutives even numbers. If the sum of first and last numbers is 100, then find the average of all five numbers?
(a) 60
(b) 54
(c) 46
(d) 50
(e) 48

Q8. The circumference of two circles is 88 meters and 132 meters respectively. What is difference between the radius of the larger circle and smaller circle?
(a) 5 meters
(b) 7 meters
(c) 8 meters
(d) 10 meters
(e) 6 meters

Q9. A train crosses a man, who is running in the same direction of train at the speed of 4 m/sec in 10 seconds. The same train crosses a tunnel in 54 seconds. If speed of train is 72 km/hr, then find the length of tunnel?
(a) 460 m
(b) 900 m
(c) 920 m
(d) 750 m
(e) 960 m

Q10. 70% of a number is equal to 30% of another number. If the sum of both the numbers is 100, then find the $\frac{100}{7}\% \ of$ the largest number?
(a) 18
(b) 2
(c) 10
(d) 12
(e) 14

Q11. If Rs. (X+1000) invested at the rate of 20% p.a. on compound interest and it becomes Rs.7920 after two years, then find the value of X?
(a) 4500 Rs.
(b) 4200 Rs.
(c) 4000 Rs.
(d) 5500 Rs.
(e) 4800 Rs.

Q12. The ratio of speed of stream to speed of a boat in still water 2:5. If the boat covers 98 km in 7 hours in downstream, then find the time taken by boat to cover 60 km in upstream?
(a) 4 hours
(b) 6 hours
(c) 8 hours
(d) 10 hours
(e) 12 hours

Q13. 24 men can complete 50% of a work in 30 days. Find in how many days 32 men can complete 200% of the same work?
(a) 60 days
(b) 90 days
(c) 30 days
(d) 75 days
(e) 180 days

Q14. The present age of father is three times of his son age. If after five years, the age of father will be $\frac{7}{3}$ *times* of his son age, then find the sum of present age of father and son?
(a) 30 years
(b) 35 years
(c) 50 years
(d) 40 years
(e) 25 years

Q15. Two person Tom and Jerry entered in a business with Rs.22000 and Rs.26400 respectively. If Jerry left the business after 'X' months and at the end of the year Tom & Jerry get equal profit share, then find X?
(a) 10
(b) 9
(c) 8
(d) 6
(e) 7

Q16. A mixture of 480 liter contains water and milk in the ratio of 7: 5. If X liter of milk is added in the mixture, the ratio becomes 2: 3 respectively, then find the value of X.
(a) 110 liters
(b) 220 liters
(c) 170 liters
(d) 130 liters
(e) 120 liters

Q17. The sum of smallest and largest number of series of five consecutive even number is X and the average of first three numbers is 6, then find X.
(a) 16
(b) 14
(c) 12
(d) 20
(e) 8

Q18. A can complete 80% of the work in 40 days and when he worked with B, they take 15 days to complete 75% of the same work. Find the time taken by B alone to complete the same work alone?
(a) $33\frac{1}{3}$ days
(b) $66\frac{2}{3}$ days
(c) $14\frac{2}{7}$ days
(d) 30 days
(e) 45 days

Q19. If two dices are thrown together, then find the probability of getting sum of more than 8?
(a) 1/6
(b) 1/8
(c) 5/18
(d) 7/18
(e) 2/9

Q20. If the cost price of 7 pens is equal to the selling price of 5 pens, then find the profit percentage?
(a) 20%
(b) 30%
(c) 40%
(d) 50%
(e) 60%

Direction (21 – 30): What will come in the place of question (?) mark in following questions.

Q21. 25% of 28 + 75% of 28+ 2^3 =$?^2$
(a) 3
(b) 1
(c) 6
(d) 4
(e) 8

Q22. $51\frac{1}{2}$% of 600 + $14\frac{2}{7}$% of 280 = ?
(a) 329
(b) 368
(c) 349
(d) 365
(e) 380

Q23. $4.8 \times 5 + 8 \times 0.75 = ?$
(a) 40
(b) 20
(c) 30
(d) 50
(e) 60

Q24. $540 \div 1.2 - 50 = ?$
(a) 500
(b) 490
(c) 400
(d) 450
(e) 430

Q25. 25% of 104 + 35% of 60 = ? − 55% of 400
(a) 252
(b) 257
(c) 262
(d) 267
(e) 272

Q26. $\sqrt{\sqrt{225} \times 3 + \sqrt{576} \div 6} = ?$
(a) 7
(b) 6
(c) 9
(d) 5
(e) 12

Q27. $(12)^3 + (6)^4 \div 81 = ?$
(a) 1744
(b) 1060
(c) 1148
(d) 1584
(e) 1224

Q28. 45 + 7% of ? = 470 ÷ 5
(a) 750
(b) 450
(c) 500
(d) 700
(e) 600

Q29. $(18)^2 + (13)^2 = 93+?$
(a) 600
(b) 300
(c) 400
(d) 500
(e) 800

Q30. ? - 582 + 706 = 670
(a) 584
(b) 544
(c) 524
(d) 576
(e) 546

Directions (31-35): Study the following information carefully and answer the questions given below:
Ten persons A, P, G, E, H, S, L, C, R and T sit around a circular table and all of them face towards the center but not necessarily in the same order. Three persons sit between A and P who sits immediate left of C. Four persons sit between P and L who sits 3rd to the right of R. S sits 2nd to the right of H. G sits immediate left of T.

Q31. Who among the following sits 3rd to the left of G?
(a) H
(b) A
(c) R
(d) P
(e) C

Q32. How many persons sit between A and C?
(a) One
(b) Two
(c) Three
(d) Four
(e) More than four

Q33. Who among the following are immediate neighbours of E?
(a) A, H
(b) H, S
(c) S, P
(d) P, H
(e) None of these

Q34. What is the position of G with respect to L?
(a) Immediate left
(b) 2nd to the right
(c) 2nd to the left
(d) 3rd to the left
(e) 3rd to the right

Q35. Who among the following sits 2nd to the right of T?
(a) L
(b) A
(c) H
(d) P
(e) C

Directions (36-39): In these questions relationship between elements is shown in the statement. The statements are followed by two conclusions. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.

Q36. Statement: P > Y= R ≥ T < S > K = G > B < F
Conclusions: **I**. Y > K   **II**. B < S
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or conclusion II follows.
(d) If both conclusion I and conclusion II follow.
(e) If neither conclusion I nor conclusion II follows.

Q37. Statement: H > Y = I < M > L ≤ S = O
Conclusions: **I**. Y > L   **II**. S ≥ I
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or conclusion II follows.
(d) If both conclusion I and conclusion II follow.
(e) If neither conclusion I nor conclusion II follows.

Q38. Statement: H < J = D < R > P ≥ G ≤ B
Conclusions: **I**. D ≥ G   **II**. G > D
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or conclusion II follows.
(d) If both conclusion I and conclusion II follow.
(e) If neither conclusion I nor conclusion II follows.

Q39. Statement: T > S > K = E ≤ X < M = R > O ≥ V
Conclusions: **I**. E < T   **II**. V = M
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or conclusion II follows.
(d) If both conclusion I and conclusion II follow.
(e) If neither conclusion I nor conclusion II follows.

Q40. If it is possible to form a four-letter meaningful word with 4th, 8th, 9th and 10th letter of the word "**CONSULTING**", then what would be the 2nd letter of that meaningful word? If no such meaningful word is formed mark your answer as X and if more than one meaningful word is formed mark your answer as Y?
(a) S
(b) Y
(c) N
(d) I
(e) X

Directions (41-45): Study the following information carefully and answer the question given below:

There are nine persons i.e., Amit, Nisha, Monika, Riya, Nidhi, Rahul, Rajesh, Suraj and Neha attend meeting on three different dates 4th, 15th and 21st of three given months viz. March, June and August of a year but not necessarily in same order.

Neha attends the meeting on an odd date in the month having least number of days. Nidhi attends the meeting after Neha on the same date. Number of persons attend the meeting after Nidhi is same as the number of persons attend the meeting before Nisha who attends the meeting just before Amit. Rajesh attends the meeting on 4th June but after Monika who attends the meeting on an even date. Rahul attends the meeting after Suraj but on same date.

Q41. Who among the following attends the meeting on 4th August?
(a) Nidhi
(b) Nisha
(c) Rahul
(d) Suraj
(e) Riya

Q42. How many persons attend the meeting between Nidhi and Rajesh?
(a) One
(b) Two
(c) Three
(d) Four
(e) Five

Q43. Nisha attends the meeting on which of the following date?
(a) 21st March
(b) 4th March
(c) 15th June
(d) 15th March
(e) 15th August

Q44. Which of the following persons attend the meeting in the same month?
(a) Riya, Suraj, Nidhi
(b) Monika, Amit, Rajesh
(c) Amit, Nisha, Suraj
(d) Nidhi, Riya, Rahul
(e) None of these

Q45. Who among the following persons attend the meeting just before Riya?
(a) Suraj
(b) Neha
(c) Nidhi
(d) Rahul
(e) Monika

Q46. How many such pair of letters are there in the word "OPPOSITE", each of which have as many letters between them in the word as they have in English alphabet (from both forward and backward direction)?
(a) One
(b) Two
(c) Three
(d) Four
(e) More than Four

Directions (47-51): In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

Q47. Statements: Only a few B are C. No D is C. Some A are D.
Conclusions: I. Some A can be C.
II. Some B is not D.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusion I and II follows.

Q48. Statements: Only Bus are Train. Some Bus are Truck. Some Auto are Truck.
Conclusions: I. Some Auto can be Train.
II. Some Bus can be Auto.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusion I and II follows.

Q49. Statements: No Flower is Pink. Some Pink are Blue. Only Blue is Sky.
Conclusions: I. No Sky is Flower.
II. Some Flower is Blue.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusion I and II follows.

Q50. Statements: Only Guava is Apple. Some Guava are Mango. Only a few Grapes are Mango.
Conclusions: I. All Grapes can be Mango.
II. Some Apple are Mango.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusion I and II follows.

Q51. Statements: Some 16 are 19. Some 19 are 91. No 66 is 91.
Conclusions: I. Some 19 are not 66.
II. Some 16 are 91.
(a) If only conclusion I follows.
(b) If only conclusion II follows.
(c) If either conclusion I or II follows.
(d) If neither conclusion I nor II follows.
(e) If both conclusion I and II follows.

Directions (52-56): Read the given information carefully and answer the questions based on it:

Seven persons were born in seven different years i.e., 1986, 2006, 1973, 1994, 1982, 1998 and 1991. Age of all the persons will be calculated on the base year 2022. H's age is a perfect square number. Age difference between B and H is 12years. Three persons were born between B and F. S is 9years younger to F. The number of persons born before S is same as the number of persons born after K. L was born before A.

Q52. What is the age of L?

(a) 49 years

(b) 36 years

(c) 28 years

(d) 31 years

(e) None of these

Q53. K was born in which among the following years?

(a) 1973

(b) 2006

(c) 1986

(d) 1998

(e) None of these

Q54. How many persons were born after H?

(a) Four

(b) Five

(c) Six

(d) Two

(e) None of these

Q55. What will the total age of S and A?

(a) 80 years

(b) 65 years

(c) 71 years

(d) 85 years

(e) None of these

Q56. What is the difference between the ages of F and B?

(a) 20 years

(b) 15 years

(c) 16 years

(d) 21 years

(e) None of these

Directions (57-59): Read the given information carefully and answer the questions accordingly.

A person walks 10m from point A to point B towards north. He takes a left turn from point B and walks 8m to reach point C. He turns towards north from point C and reaches point D after a distance of 7m. Point E is 12m east of point D. Point H is 2m south of point G which is 4m west of point F. Point F is 9m north of point E.

Q57. What is the direction of H with respect to point A?
(a) North
(b) North-east
(c) North-west
(d) South
(e) None of these

Q58. How many points lie in the south-west of point E?
(a) None
(b) Three
(c) Four
(d) Two
(e) None of these

Q59. What is the shortest distance between point D and point F?
(a) 13m
(b) 17m
(c) 16m
(d) 15m
(e) None of these

Q60. If we form a four-letter meaningful word with 4th, 5th, 7th and 10th letter from the left end of the word **'EXPERIMENT'**, then what would be the third letter of that meaningful word? If no meaningful word is formed, then mark X as your answer. If more than one meaningful word is formed, then mark Y as your answer.
(a) T
(b) R
(c) M
(d) X
(e) Y

Directions (61-67): Read the passage carefully and answer the given questions based on that
Recently a powerful earthquake of magnitude 5.9 on the Richter scale   a remote town in Afghanistan, killing over a thousand and injuring many more. According to the U.S. Federal Emergency Management Agency, a 5.9 on the Richter scale is roughly equivalent to 37 times the energy released by the atomic bomb dropped on Hiroshima. Experts are still trying to figure out the best early warning system to mitigate the damage caused by earthquakes.
According to the theory of plate tectonics, the Earth's crust and upper mantle are made of large **rigid** plates that can move relative to one another. Slip faults near the plate boundaries can result in earthquakes. The point inside the Earth where the earthquake eruption starts is called the focus or hypocenter. The point directly above it on the surface of the Earth is the epicenter. Any elastic material when subjected to stress, stretches in a proportional way, until the elastic limit is reached. When the elastic limit is crossed, it breaks. Similarly, the Earth also has an elastic limit and when the stress is higher than this limit, it breaks and energy releases causes jiggling of earth surface. Since the material is elastic, the energy is released in the form of elastic waves. These **propagate** to a distance determined by the extent of the impact. These are known as seismic waves.
Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it. In India, the National Seismological Network does this work. It has a history of about 120 years and its sensors can now detect an earthquake within five to ten minutes. Richter magnitude is a measure of the magnitude of an earthquake and was first defined by Charles F. Richter of the California Institute of Technology, U.S., in 1935. The magnitude of an earthquake is the logarithm of the amplitude of the waves measured by the seismographs. Richter scale magnitudes are expressed as a whole number and a decimal part, for example 6.3 or 5.2. Since it is a logarithmic scale, an increase of the whole number by one unit signifies a tenfold increase in the amplitude of the wave and a 31-times increase of the energy released. Based on seismicity, intensity of earthquakes experienced, and geological and tectonic qualities of a region, countries are divided into several zones. In India, for example, there are four zones, designated Zone II-Zone V. Among these, Zone V is the most hazardous and Zone II the least hazardous.

Q61. How does earthquake happen?
(a) Tectonic plates sometimes get damaged or fractured due to excessive barometric pressure, which leads to earthquake
(b) Magma that resides beneath the earth's surface sometimes outbursts through tectonic plates causing an earthquake.
(c) The tectonic plates slide against each other, which can cause slip faults near the plate boundaries causing an earthquake.
(d) Due to the earth's billion years of age, the tectonic plates' surfaces are getting collapsed, thus causing earthquake.
(e) None of these

Q62. What is the seismic wave?
(a) Seismic waves are the trembling of the ground in response to the energy released after passing the elasticity's threshold
(b) Seismic waves are the jolts that happen exactly before an earthquake, somewhat similar to a warning signal
(c) Seismic waves are the lower infrared waves that continuously flow through the earth's crust
(d) seismic waves are the waves that are created due to the vibration between electric and magnetic fields
(e) None of these

Q63. What is the seismographic network?
(a) Seismographic network is the connection between earthly surface to satellite to record the atmospheric pressure
(b) Seismographic network is the collection of seismic stations, used to record the motion of ground during an earthquake
(c) Seismographic network is the collection of equipment and antennas mounted on the surface of earth to provide better connectivity
(d) Seismographic network is the device used to measure pressure on earth's crust at the sea level
(e) None of these

Q64. Which of the following sentences is FALSE with respect to the data given in the passage?
(a) The intensity of the recent Afghanistan earthquake is somewhat equivalent to the energy released by the atomic bomb dropped on Hiroshima.
(b) Charles F. Richter gave the definition of the measuring standard for earthquake, i.e., Richter Magnitude
(c) National Seismological Network is the authoritative body for measuring earthquake in India
(d) The hypocenter is the point within the earth where an earthquake rupture starts
(e) The epicenter is the point on the Earth's surface directly above a hypocenter or focus

Q65. Which of the following is not among the criteria considered in dividing regions into zone?
(a) seismicity
(b) intensity of earthquake
(c) human density
(d) geological and tectonic quality of a region
(e) None of these

Q66. Which of the following words can fit into the blank given in the passage?
(a) targeted
(b) struck
(c) bombarded
(d) flourished
(e) thrown

Q67. Which of the following is the synonym of "propagated" highlighted in the passage?
(a) circulated
(b) vibrated
(c) vanquished
(d) divided
(e) None of these

Directions (68-73): In the following questions six sentences are given. You must rearrange these sentences to make a contextually meaningful paragraph. Later, answer the follow-up questions.

(A) But the theory if confirmed, would explain the mystery of invisible constellation of particles mass.

(B) Ten years ago, scientists discover the Higgs boson, which helps explain why elementary particles have mass.

(C) Such a discovery could be the next big breakthrough of the last century after Einstein's first formulation of quantum physics

(D) Physicist Peter Higgs predicted the Higgs boson as the mechanism responsible for giving elementary particles mass.

(E) The same model also gives the concept of Higgs particle, which could possibly negate the theory

This theory suggests particle masses are a consequence of elementary particles interacting with a field, called Higgs field

Q68. Which is the SECOND sentence after rearrangement?

(a) A

(b) B

(c) F

(d) D

(e) E

Q69. Which is the FOURTH sentence after rearrangement?

(a) A

(b) B

(c) C

(d) F

(e) E

Q70. Which is the FIFTH sentence after rearrangement?

(a) A

(b) B

(c) C

(d) D

(e) E

Q71. Which is the FIRST sentence after rearrangement?

(a) A

(b) B

(c) C

(d) D

(e) E

Q72. Which is the SIXTH sentence after rearrangement?

(a) A

(b) B

(c) C

(d) D

(e) E

Q73. Which is the THIRD sentence after rearrangement?

(a) A

(b) F

(c) C

(d) D

(e) E

Directions (74-83): Each question is divided into four parts in which one part contains the error. Choose the incorrect part as your answer. If the sentence is correct as it is, choose "No Error" as your answer choice.

Q74. As the countdown for the much-awaited(A)/ Rath Yatra of Lord Jagannath begins, thousand (B)/ of devotees from across the country (C)/have started thronging the pilgrim town, Puri(D).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q75. Once a popular small-car market (A)/ with the growing economy, the rising (B) /middle class has seeking more modern, (C)/ premium, safe and high-tech cars (D).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q76. Venture capital funding into Indian startups (A)/dipped 37% in the second quarter of (B)/this year to $6.9 billion, data sourced from (C)/research firm Venture Intelligence showed(D).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q77. The government will review the windfall tax levied (A)/on domestically produced crude every two weeks (B)/ based on exchange rates, international prices (C)/and the local cost of crude, government officials said(D).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q78. India's petrol and diesel sales soared in June (A)/ in the back of the start of cropping season, summer (B)/travels and overall pick up in economic activity(C)/ preliminary industry data showed (D).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q79. The growth of aviation sector (A)/ has been affected by choking (B)/ regulations, tough entry (C)/ barriers of new entrants. (D)/ No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q80. India monthly merchandise trade (A)/ deficit hit a fresh record as per (B)/ preliminary estimates released (C)/ by the Commerce and Industry Ministry (D)/ No Error (E).
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q81. The economic crisis in Sri Lanka (A)/ has significantly reduced incomes, (B)/ affordable of food and thus increased (C)/ the risk of food insecurity. (D)/ No Error (E)
(a) A
(b) B
(c) C
(d) D
(e) No Error

Q82. Tuberculosis is the (A)/most worst among endemic (B)/ diseases, killing 1.5 million (C)/ people every year (WHO) (D)/ No Error (E)
(a) B
(b) D
(c) A
(d) C
(e) No Error

Q83. Foreign portfolio investors (A)/ are those that invest funds (B)/ in markets outside (C)/ of its home turf (D)/ No Error (E)
(a) B
(b) D
(c) A
(d) C
(e) No Error

Directions (84-88): In each of the questions given below, a statement has been given with a word omitted. Following the statement, four words have been given and one of the given words will fit in the blank. Choose the most appropriate word to make the statement contextually correct and grammatically meaningful.

Q84. India has met the _____of a liberalized economy.
(a) deadline
(b) sizzle
(c) threshold
(d) association
(e) criteria

Q85. Private universities have begun _____new courses and subjects.
(a) launch
(b) underpin
(c) introducing
(d) lagging
(e) conquering

Q86. Multiple rounds of talks have made _____ in bringing the deal back on track.
(a) pavement
(b) progress
(c) solidarity
(d) accomplish
(e) rebel

Q87. Indian culture has been _____ by several foreign cultures throughout its history.
(a) cherished
(b) applause
(c) influenced
(d) dictate
(e) whirl

Q88. _____ periods of sitting also seem to increase the risk of death from cardiovascular disease and cancer.
(a) Reneged
(b) Lasting
(c) Delayed
(d) Prolonged
(e) Encompassed

Directions (89-90): In each sentence four words are given in bold. In which one word is either misspelt or grammatically inappropriate, choose it as your answer. If all the words are correct choose option "No Error".

Q89. India has been **registering (A)** instances of anomalous weather with **alarming (B)** frequency with an **eratic (C)** monsoon and coastal **erosion (D)**.
(a) registering
(b) alarming
(c) eratic
(d) erosion
(e) All are correct

Q90. Awe (A) is the **sensasion (B)** of being **confronted (C)** by something so vast that it forces us to **reconsider (D)** our understanding of the world.
(a) Awe
(b) sensasion
(c) confronted
(d) reconsider
(e) All are correct

Solution

S1. Ans.(e)
Sol. Here the pattern is:
16−16 = 0
0+8 = 8
8−4 = 4
4+2 = 6
?= 6−1 =**5**

S2. Ans.(b)
Sol. Here the pattern is:
$375000 \div 5 = 75000$
$75000 \div 10 = 7500$
$7500 \div 15 = 500$
$? = 500 \div 20 = \mathbf{25}$
$25 \div 25 = 1$

S3. Ans.(c)
Sol. Pattern of series
$10 + 14 = 24$
$24 + 28 = 52$
$52 + 56 = 108$
$108 + 112 = 220$
$? = 220 + 224 = \mathbf{444}$

S4. Ans.(a)
Sol. Here the pattern is:
$456 + 13 = 469$
$469 + 15 = 484$
$484 + 17 = 501$
$501 + 19 = 520$
$? = 520 + 21 = \mathbf{541}$

S5. Ans.(b)
Sol. Here the pattern is:
$36 \times 2 = 72$
$72 \div 3 = 24$
$24 \times 4 = 96$
$? = 96 \div 5 = \mathbf{19.2}$
$19.2 \times 6 = 115.2$

S6. Ans.(a)
Sol. Selling price $= (13300 + 700) \times \frac{120}{100} = Rs. 16800$
Required profit $= 16800 - (13300 + 700) = Rs. 2800$

S7. Ans.(d)
Sol. Let five consecutives even numbers are a, a+2, a+4, a+6 and a+8 respectively.
ATQ
$a + a + 8 = 100$
$2a = 92$
$a = 46$
Required average $= \frac{5a + 20}{5} = a + 4 = 46 + 4 = 50$

S8. Ans.(b)
Sol. Let radius of the smaller circle and bigger circle are r meters & R meters respectively.
ATQ,
2π(R-r) = 132 – 88
R – r = $\frac{44}{44} \times 7 = 7$ metres

S9. Ans.(c)
Sol. Speed of man = 4 m/sec
Speed of train = $72 \times \frac{5}{18}$ = 20 m/sec
∴ Length of train = (20 – 4) × 10 = 160 m
∴ Length of tunnel = 54 × 20 – 160 = 920 m

S10. Ans.(c)
Sol. Let two numbers are x and y respectively
ATQ.
$\frac{70 \times x}{100} = \frac{30 \times y}{100}$
$\Rightarrow \frac{x}{y} = \frac{3}{7}$
Let the two number will be 3x and 7x
3x+7x=100
10x=100
x=10
required answer= $\frac{1}{7} \times 7 \times 10 = 10$

S11. Ans.(a)
Sol. ATQ,
$(X + 1000) \times \frac{120}{100} \times \frac{120}{100} = 7920$
X+1000 = 5500 Rs.
X= 4500

S12. Ans.(d)
Sol. Let the speed of the boat in still water = 5s
So, speed of the stream = 2s
ATQ,
$(5s + 2s) = \frac{98}{7}$
7s = 14 km/hr
s=2
Required time = $\frac{60}{5s-2s}$
$= \frac{60}{3s} = \frac{60}{3 \times 2}$ = 10 hr.

S13. Ans.(b)
Sol. Let number of days required be 't'.
So,
$$\frac{24 \times 30}{50\%} = \frac{32 \times t}{200\%}$$
Required number of days= t = 90 $days$

S14. Ans.(d)
Sol. Let the present age of son = x
So, present age of father $= 3x$
ATQ
$(3x + 5) = \frac{7}{3} \times (x + 5)$
9x+15 = 7x+35
x = 10 years
Required sum = 4x = 40 years

S15. Ans.(a)
Sol. ATQ,
$$\frac{22000 \times 12}{26400 \times X} = \frac{1}{1}$$
X = 10

S16. Ans.(b)
Sol. Quantity of water in the initial mixture $= \frac{7}{12} \times 480 = 280$ $litre$

Quantity of milk in initial mixture $= 480 - 280 = 200$ $litre$
ATQ
$$\frac{280}{200+X} = \frac{2}{3}$$
$X = 220$

S17. Ans.(a)
Sol. Let the no. are x, x+2, x+4, x+6 and x+8 respectively.
ATQ
$x + x + 2 + x + 4 = 18$
3x + 6 = 18
12 = 3x
4 = x
Required answer = x+x+8 = 16

S18. Ans.(a)
Sol. Time taken by A to complete the whole work $= 40 \times \frac{100}{80} = 50$ $days$

Time taken by A and B together to complete the whole work $= 15 \times \frac{100}{75}$

$= 20$ $days$
Let total work be 100 units (LCM of 50 & 20)
So, efficiency of A and (A+B) is 2 and 5 units/day respectively.
Required time $= \frac{100}{5-2} = 33\frac{1}{3}$ $days$

S19. Ans.(c)
Sol. Total cases = 36
Favorable cases – 10 {(3,6), (4,5), (4,6), (5,4), (5,5), (5,6), (6,3), (6,4), (6,5), (6,6)}
So, required probability $= \frac{10}{36} = \frac{5}{18}$

S20. Ans.(c)
Sol. ATQ,
7CP = 5SP
$\frac{SP}{CP} = \frac{7}{5}$
Required profit $= \frac{7-5}{5} \times 100 = 40\%$

S21. Ans.(c)
Sol. $\frac{25 \times 28}{100} + \frac{3}{4} \times 28 + 8 = ?^2$
$7 + 21 + 8 = ?^2$
$36 = ?^2$
$6 = ?$

S22. Ans.(c)
Sol. $? = \frac{103}{200} \times 600 + \frac{1}{7} \times 280$
? = 309 + 40
? = 349

S23. Ans.(c)
Sol. ? = 24 + 6
? = 30

S24. Ans.(c)
Sol. ? = 450 − 50
? = 400

S25. Ans.(d)
Sol. $\frac{1}{4} \times 104 + 21 = ? - 220$
$26 + 21 = ? - 220$
$267 = ?$

S26. Ans.(a)
Sol. $? = \sqrt{15 \times 3 + 24 \div 6}$
$? = \sqrt{45 + 4}$
$? = \sqrt{49}$
? = 7

S27. Ans.(a)

Sol. $1728 + \frac{1296}{81} = ?$

? = 1728+16

?=1744

S28. Ans.(d)

Sol. $45 + \frac{7}{100} \times ? = \frac{470}{5}$

$45 + \frac{7 \times ?}{100} = 94$

$\frac{7 \times ?}{100} = 49$

?=700

S29. Ans.(c)

Sol. 324 + 169 = 93+?

? = 400

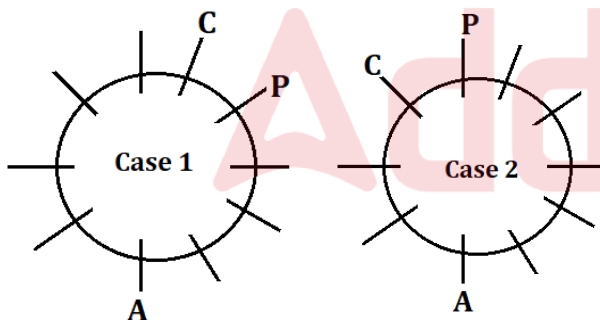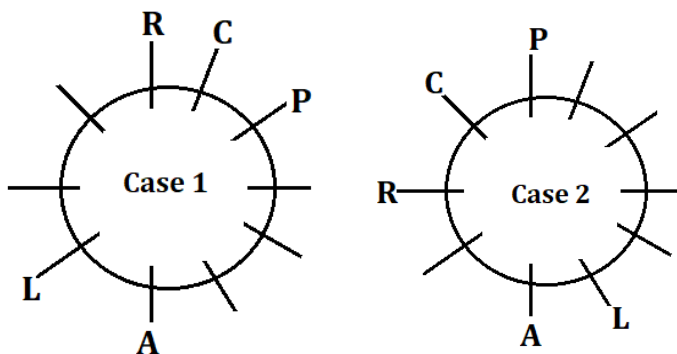**S30. Ans.(e)**

Sol. ? - 582 + 706 = 670
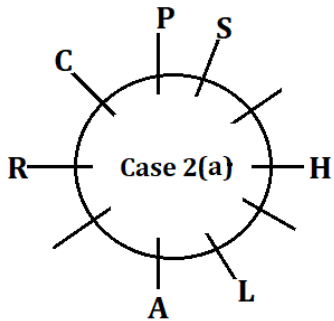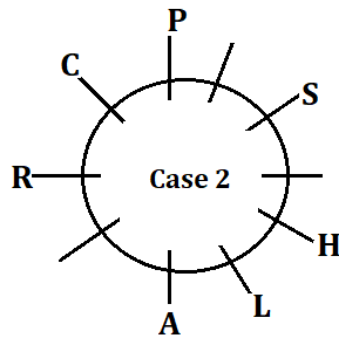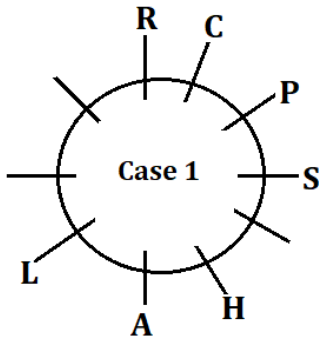
? = 1252 – 706

? = 546

Solutions (31-35): Three persons sit between A and P who sits immediate left of C. There are two possibilities:
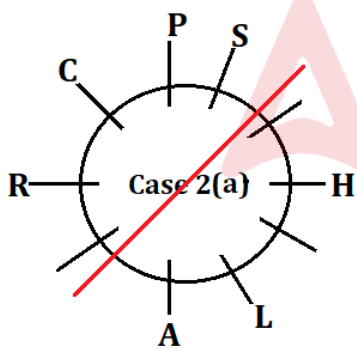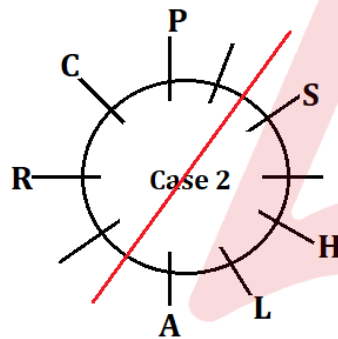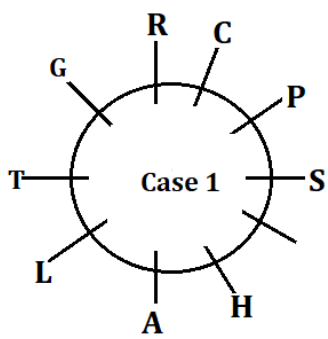

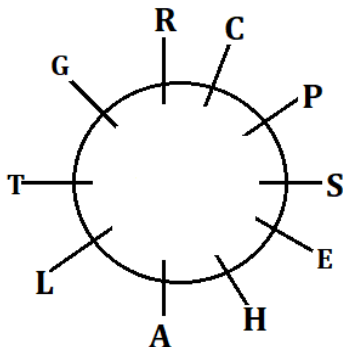Four persons sit between P and L who sits 3rd to the right of R.

S sits 2nd to the right of H. Here, one more possibility comes from case 2: -

G sits immediate left of T. Here case 2 and case 2(a), both ruled out as there is no two adjacent places left for G and T.

o

E is one of the persons given in the question and only 1 place is left. So, the final arrangement is:

S31. Ans.(d)
Sol. P sits 3rd to the left of G.

S32. Ans.(d)
Sol. Four persons sit between A and C.

S33. Ans.(b)
Sol. H and S are immediate neighbours of E.

S34. Ans.(c)
Sol. G is 2nd to the left of L.

S35. Ans.(b)
Sol. A sits 2nd to the right of T.

Direction (36-39):

S36. Ans.(b)
Sol. I. Y > K (False) II. B < S (True)

S37. Ans.(e)
Sol. I. Y > L (False) II. S ≥ I (False)

S38. Ans.(c)
Sol. I. D ≥ G (False) II. G > D (False)

S39. Ans.(a)
Sol. I. E < T (True) II**.** V = M (False)

S40. Ans.(b)
Sol. Given word- "CONSULTING"
4th, 8th, 9th and 10th letter are S, I, N and G
Meaning word- SING, SIGN

Solutions (41-45): Neha attends the meeting on an odd date in the month having least number of days. There are two possibilities as Neha can attend the meeting on 15th June or on 21st June. Nidhi attends the meeting after Neha on the same date.

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	4		
	15		
	21		
June	4		
	15	Neha	
	21		Neha
August	4		
	15	Nidhi	
	21		Nidhi

Number of persons attend the meeting after Nidhi is same as the number of persons attend the meeting before Nisha who attends the meeting just before Amit.

Months	Dates	Persons (Case 1)	Persons (Case 2)
March	4		Nisha
	15	Nisha	Amit
	21	Amit	
June	4		
	15	Neha	
	21		Neha
August	4		
	15	Nidhi	
	21		Nidhi

Rajesh attends the meeting on 4th June but after Monika who attends the meeting on an even date. So, case 2 is ruled out here because no even date is vacant for Monika before 4th June.

Months	Dates	Persons (Case 1)	~~Persons (Case 2)~~
March	4	Monika	~~Nisha~~
	15	Nisha	~~Amit~~
	21	Amit	
June	4	Rajesh	~~Rajesh~~
	15	Neha	
	21		~~Neha~~
August	4		
	15	Nidhi	
	21		~~Nidhi~~

Rahul attends the meeting after Suraj but on same date. Hence, they will attend on 21st because they attend meeting on same date.

Months	Dates	Persons (Case 1)
March	4	Monika
	15	Nisha
	21	Amit
June	4	Rajesh
	15	Neha
	21	Suraj
August	4	
	15	Nidhi
	21	Rahul

We know Riya is one of the persons and only one place is left. So, Riya will attend meeting on 15th August. Hence, the final arrangement is: -

Months	Dates	Persons
March	4	Monika
	15	Nisha
	21	Amit
June	4	Rajesh
	15	Neha
	21	Suraj
August	4	Riya
	15	Nidhi
	21	Rahul

S41. Ans.(e)
Sol. Riya attends meeting on 4th August.

S42. Ans.(c)
Sol. Three persons attend meeting between Nidhi and Rajesh.

S43. Ans.(d)
Sol. Nisha attends meeting on 15th march.
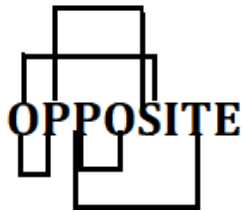
S44. Ans.(d)
Sol. Nidhi, Riya, Rahul attends meeting in August.

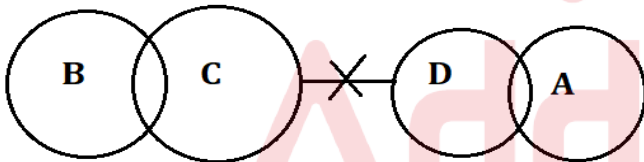**S45. Ans.(a)**
Sol. Suraj attends meeting just before Riya.
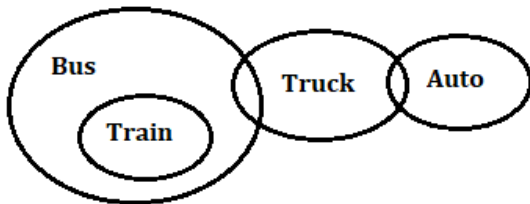
S46. Ans.(e)
Sol. Five pairs.

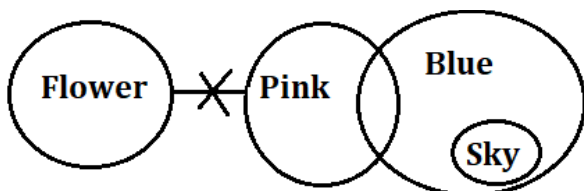**S47. Ans.(e)**
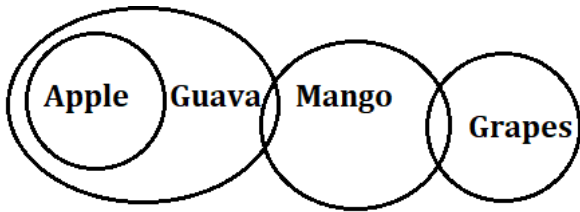**Sol.**

S48. Ans.(b)
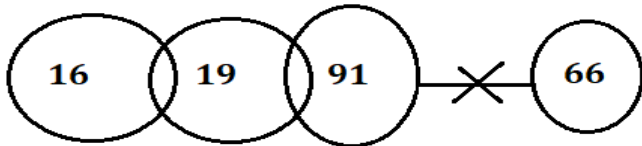**Sol.**

S49. Ans.(a)
Sol.

S50. Ans.(d)
Sol.

S51. Ans.(a)
Sol.

Solutions (52-56): H's age is a perfect square number. Age difference between B and H is 12 years. There are two possible cases. Three persons were born between B and F.

Year	Age	Persons	Persons
		Case 1	Case 2
1973	49		F
1982	40	F	
1986	36	H	
1991	31		
1994	28		B
1998	24	B	
2006	16		H

S is 9years younger to F. The number of persons were born before S is same as the number of persons were born after K. Case 1 will eliminate here because equal number of persons were born before and after S in case 1.

Year	Age	Persons	Persons
		~~Case 1~~	Case 2
1973	49		F
1982	40	~~F~~	S
1986	36	~~H~~	
1991	31	~~S~~	
1994	28		B
1998	24	~~B~~	K
2006	16		H

L was born before A. After applying all the conditions, the final arrangement is:

Year	Age	Persons
1973	49	F
1982	40	S
1986	36	L
1991	31	A
1994	28	B
1998	24	K
2006	16	H

S52. Ans.(b)
Sol. Age of L is 36 years.

S53. Ans.(d)
Sol. K was born in 1998.

S54. Ans.(e)
Sol. No one is born after H because H is the youngest person among all.

S55. Ans.(c)
Sol. S (40) + A (31) = 71 years

S56. Ans.(d)
Sol. F (49) – B (28) = 21 years

Solutions (57-59):
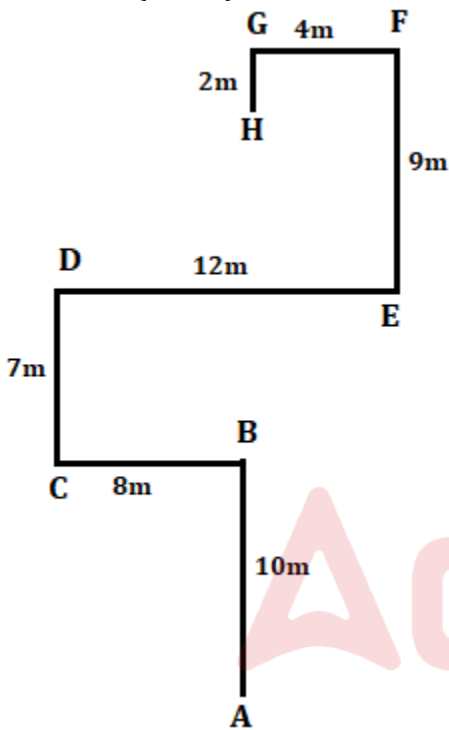
S57. Ans.(a)
Sol. Point H is to the north of point A.

S58. Ans.(b)
Sol. Three points (C, B, A) lie in the south-west of point E.

S59. Ans.(d)
Sol. By using Pythagoras theorem, $[(FE)^2] + [(DE)^2] = (DF)^2$
$[(9)^2] + [(12)^2] = 81+144= 225= (15)^2$
So, DF= 15m

S60. Ans.(b)
Sol. Meaningful word formed by using letters R, E, M, T= TERM
Third letter of meaningful word is **R**

S61. Ans.(c)
Sol. To answer the given question, refer to the first few sentences of the second paragraph, where it is mentioned, "According to the theory of plate tectonics, the Earth's crust and upper mantle are made of large rigid plates that can move relative to one another. Slip faults near the plate boundaries can result in earthquakes."

S62. Ans.(a)
Sol. On referring to the second paragraph of the passage, we can conclude that only option (a) is true. Refer "Similarly, the Earth also has an elastic limit and when the stress is higher than this limit, it breaks and energy releases causes jiggling of earth surface. Since the material is elastic, the energy is released in the form of elastic waves. These propagate to a distance determined by the extent of the impact. These are known as seismic waves"

S63. Ans.(b)
Sol. To validate the answer, refer to the third paragraph, "Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it"

S64. Ans.(a)
Sol. Only option (a) is false
For option (a): Refer to the first paragraph, "According to the U.S. Federal Emergency Management Agency, a 5.9 on the Richter scale is roughly equivalent to 37 times the energy released by the atomic bomb dropped on Hiroshima."
For option (b): Refer to the third paragraph, "Richter magnitude is a measure of the magnitude of an earthquake and was first defined by Charles F. Richter of the California Institute of Technology, U.S., in 1935"
For option (c): Refer to the third paragraph, "Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it. In India, the National Seismological Network does this work"
For option (d) and (e): Refer to the second paragraph, "The point inside the Earth where the earthquake eruption starts is called the focus or hypocenter. The point directly above it on the surface of the Earth is the epicenter"

S65. Ans.(c)
Sol. To validate the answer, refer to the third paragraph of the passage, "Based on seismicity, intensity of earthquakes experienced, and geological and tectonic qualities of a region, countries are divided into several zones. In India, for example, there are four zones, designated Zone II-Zone V. Among these, Zone V is the most hazardous and Zone II the least hazardous."

S66. Ans.(b)
Sol. The word best fitted for the given blank is "struck"
Targeted: select as an object of attention or attack.
Struck: occur suddenly and have harmful or damaging effects on.
Bombarded: direct a stream of high-speed particles at (a substance).
Flourished: row or develop in a healthy or vigorous way
Thrown: propel (something) with force through the air by a movement of the arm and hand

S67. Ans.(a)
Sol. "propagated" means spread and promote widely.
Circulated: pass from place to place or person to person.
Vibrated: move continuously and rapidly to and fro
Vanquished: defeat thoroughly.
Divided: separated into parts or pieces

S68. Ans.(d)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S69. Ans.(e)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S70. Ans.(a)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S71. Ans.(b)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S72. Ans.(c)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S73. Ans.(b)
Sol. The given passage talks about the discovery of "Higgs Boson", which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S74. Ans.(b)
Sol. The error lies in part B. Here "thousands" is the correct usage instead of "thousand" as it implies "many thousand". If the statement is "thousand of", it strictly suggests "1000 of".

S75. Ans.(c)
Sol. The error lies in part C. Here, the sentence is suggesting an ongoing event thus, the verb corresponding to it should be "present continuous". Hence, "has" should be exchanged with "is".

S76. Ans.(e)
Sol. The sentence is correct as it is and thus requires no change

S77. Ans.(a)
Sol. The Error lies in part A. Here, "will" need to be changed with "would" as the helping verb of future simple tense will convert to 'Would' in the Indirect (reported) Speech.

S78. Ans.(b)
Sol. The Error lies in part B. Here, "in" must be changed with "on". "On" preposition is used to show the basis or reason for something, hence, the correct usage.

S79. Ans.(d)
Sol. The error lies in part (D). Here preposition 'of' should be replaced by 'for' because the chocking regulations, tough entry barriers are for new entrants.

S80. Ans.(a)
Sol. The error lies in part (A). Here 'India' should be 'India's' to show belongingness of merchandize trade.

S81. Ans.(c)
Sol. The error lies in part (C). Here 'affordable' which is an adjective should be replaced with 'affordability' as we need noun here.

S82. Ans.(a)
Sol. The error lies in part (B). Here 'most' should be not used because 'worst' is a superlative degree and we don't use 'most' which is also a superlative degree with it.

S83. Ans.(b)
Sol. The error lies in part (D). Here possessive determiner 'its' should be replaced by 'their' for plural noun 'investors'.

S84. Ans.(e)
Sol. The correct word for the given blank is 'criteria'
(a) deadline means the latest time or date by which something should be completed.
(b) sizzle means make a hissing sound when frying or cooking.
(c) threshold means a point of entry or beginning.
(d) association means a group of people organized for a joint purpose
(e) criteria means a principle or standard by which something may be judged or decided.

S85. Ans.(c)
Sol. The correct word for the given blank is 'introducing'
(a) launch means set (a boat) in motion by pushing it or allowing it to roll into the water.
(b) underpin means support, justify, or form the basis for.
(c) introducing means bring (something, especially a product, measure, or concept) into use or operation for the first time.
(d) lagging means fail to keep up with another or others in movement or development.
(e) conquering means overcome and take control of (a place or people) by military force.

S86. Ans.(b)
Sol. The correct word for the given blank is 'progress'
(a) pavement means a raised paved or asphalted path for pedestrians at the side of a road.
(b) progress means development towards an improved or more advanced condition.
(c) solidarity means unity or agreement of feeling or action, especially among individuals with a common interest; mutual support within a group.
(d) accomplish means achieve or complete successfully.
(e) rebel means a person who rises in opposition or armed resistance against an established government or leader.

S87. Ans.(c)
Sol. The correct word for the given blank is 'influenced'.
(a) cherished means protect and care for (someone) lovingly.
(b) applause means approval or praise expressed by clapping.
(c) influenced means have an effect on the character, development, or behaviour of someone or something, or the effect itself.
(d) dictate means state or order authoritatively.
(e) whirl means move or cause to move rapidly round and round.

S88. Ans.(d)
Sol. The correct word for the given blank is 'prolonged'
(a) Reneged means go back on a promise, undertaking, or contract.
(b) Lasting means enduring or able to endure over a long period of time.
(c) Delayed means make (someone or something) late or slow.
(d) Prolonged means continuing for a long time or longer than usual; lengthy.
(e) Encompassed means surround and have or hold within.

S89. Ans.(c)
Sol. The correct spelling of "eratic" is erratic. All other spellings are correct. Thus, option (c) is correct.
erratic – not even or regular in pattern or movement; unpredictable

S90. Ans.(b)
Sol. The correct spelling of "sensasion" is sensation. All other spellings are correct. Thus, option (b) is the correct answer.
sensation – a widespread reaction of interest and excitement