

IBPS Clerk Pre 2022 (3rd September) Shift-Wise Previous Year Papers Mock 03

Directions (1-8): Read the passage given below and answer the questions that follow. Some words have been highlighted to help you locate while answering the questions.

A worm burrows its way through the dark earth, ingesting particles of soil and expelling nutrient-rich casts in a constant forage for food. Charles Darwin described earthworms as one of the most important creatures on Earth. Worms are **critical** to soil health, and without soil Planet Earth would be little more than a lifeless rock. So why is it that most of us take the earth beneath our feet for granted?

We might imagine soil as endless and indestructible: it is neither. Only about 7.5 percent of the earth's surface provides the soil we rely on for agriculture, and it _____. Topsoil is used to grow 95 percent of our food, and it is disappearing ten times faster than it is being replaced: America's corn belt has already lost much of its topsoil, threatening livelihoods and communities as well as food supply. The reality is that it takes thousands of years to create an inch of fertile topsoil, but it can be **destroyed** in minutes.

Healthy soil is a dynamic living ecosystem: a complex combination of minerals and organic matter containing air, water, and life. Worms are not alone in the ground, just a gram of dirt can contain as many as 50,000 species, all interacting with each other to keep their soil habitat healthy and productive. The activity of these organisms, the type of rock particles, the volume of organic matter, and the proportion of air and water all combine to create hundreds of different types of soil. These range from loose sandy soils to waterlogged peats to the beautifully balanced loam that is so well suited to agriculture. But human activity is destroying the balance and one-third of the world's soil is already degraded. Soil degradation, where soil loses the physical, chemical, or biological qualities that support life, is a natural process but it is being accelerated by human activity. Pollution kills microbial life in the soil; deforestation and development disturb soil structure making it vulnerable to erosion; soil compaction associated with farming and urbanization squeezes the air out of the ground and prevents it from absorbing water. Meanwhile, climate change continues to dry the ground: three-quarters of Spain is at risk of becoming desert.

Q1. According to the passage, why is worm critical for good quality soil?

- (a) Because worms help to increase the amount of air and water in the soil.
- (b) As they break down organic matter like leaves that plants use as fertilizers
- (c) Because worms eject nutrition-rich casts in the soil while seeking food.
- (d) Because worms add nitrogen to the soil to make it suitable for plant growth.
- (e) None of these

Q2. Why do we need to worry about soil?

- (a) The percent of soil available for agriculture is very scanty
- (b) The soil used for food cropping is eroding ten times faster than being replaced
- (c) Soil also has a limited time span and gets ruined over the period of time
- (d) Usually soil takes thousands of years to rejuvenate its fertile topsoil
- (e) All of these

Q3. What is/are the basic element(s) that makes the soil healthy?

- (a) Worms that occurred in soil and increase the level of nitrogen and carbon dioxide.
- (b) Organic matters such as air, water and life along with the fusion of various minerals.
- (c) Chemical fertilizers that improve soil health and increase agricultural activity
- (d) Both (b) and (c)
- (e) None of these

Q4. How is human being responsible for soil degradation?

- (a) Cutting of trees and development are jeopardizing soil structure and making soil prone to erosion.
- (b) Human-induced pollution is wiping out microbial life from the soil
- (c) Soil capability to retain water is getting deteriorated by farming and urbanization
- (d) Moisture of the ground is withering away due to climate change driven by human activities.
- (e) All of these

Q5. Which of the following statements are TRUE as per the information given in the passage?

- (i) Almost fifty thousand species are present in just one gram of dirt.
 - (ii) Approximately thirty-three percent of the world's soil is already degraded by human activities.
 - (iii) Soil degrades when it loses its physical, chemical and biological qualities which support life.
- (a) Only (i)
 - (b) Both (i) & (iii)
 - (c) Only (iii)
 - (d) All are true
 - (e) Both (ii) & (iii)

Q6. Which of the following is an antonym of 'Critical' given in the passage?

- (a) trivial
- (b) steep
- (c) savage
- (d) nasty
- (e) None of these

Q7. Which of the following is a synonym of 'Destroyed' given in the passage?

- (a) relieved
- (b) firmed
- (c) dismantled
- (d) chaotic
- (e) None of these

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

- (a) is worth applauding
- (b) is recently unveiled

- (c) is weird innovation
- (d) is remarkably fragile
- (e) None of these

Directions (9-11): In each question, a statement is given with a word omitted. Following the statement, five words are given, in which one will fit into the blank. Choose the most appropriate word to make the statement contextually correct and grammatically meaningful.

Q9. Both grief and depression may involve intense sadness and _____ from usual activities.

- (a) merge
- (b) withdrawal
- (c) renounce
- (d) lucid
- (e) combat

Q10. Most people infected with the virus will _____ mild to moderate respiratory illness.

- (a) gather
- (b) attract
- (c) mutate
- (d) experience
- (e) vacant

Q11. Drought and water scarcity have wide-ranging _____ on crop growth and wildlife.

- (a) affects
- (b) output
- (c) resulting
- (d) vindicate
- (e) impacts

Directions (12-16): In each of the following questions, a sentence has been divided into four parts which have errors. Identify the part which doesn't have any error and mark that part as your answer.

Q12. Although samurai no longest (A)/ exist, the influence of these (B)/ great warriors still manifest (C)/ themselves deeply in Japanese culture (D).

- (a) B
- (b) D
- (c) A
- (d) C
- (e) All are incorrect

Q13. Forests still covers (A)/ about 30 percent of the world (B)/ land area, therefore they are (C)/ disappearing at an alarming rate. (D)

- (a) B
- (b) D

- (c) A
- (d) C
- (e) All are incorrect

Q14. New-age Indian tech start-ups (A)/ is now starting to take (B)/ its “Made-in-India” process (C)/ innovations to others countries (D).

- (a) B
- (b) D
- (c) A
- (d) C
- (e) All are incorrect

Q15. Over The Top is the platform for (A)/ reaching your targeted audience direct (B)/ with your content and delivering an (C)/ premium video experience who you control (D).

- (a) B
- (b) D
- (c) A
- (d) C
- (e) All are incorrect

Q16. Water sports is a very fun (A)/ way to getting exercise and they (B)/ are all very diverse with each other (C)/ and at the same time, similar. (D).

- (a) B
- (b) D
- (c) A
- (d) C
- (e) All are incorrect

Directions (17-21): In the following questions, a paragraph is given. There are several words which are highlighted, each followed by a number. These words may or may not be used in their correct sense in the given paragraph. The numbers provided with these words are then followed by five options. Each option contains words that can replace the words in the paragraph. You need to find the words that can replace the highlighted words and mark them as your answers. If the word highlighted is used correctly then mark option (e) i.e. “No replacement is required” as your answer.

Q17. Transportation plays a/an **importance (17)** role in the livability of a community – the factors that influence a community's quality of life. Transportation allows for **accomplish (18)** to food, healthcare, educational opportunities, and employment. **Laborious (19)** and affordable transportation is an important driver in economic growth in rural areas and helps ensure that people can obtain services and participate in public life. Rural residents are more **reliant (20)** on personally-owned, single driver automobiles for transportation than their urban **sessions (21)**. However, many rural residents are unable to rely on this mode of transportation.

- (a) alluring

- (b) critical
- (c) dilemma
- (d) curious
- (e) No replacement required

Q18. Transportation plays a/an **importance (17)** role in the livability of a community – the factors that influence a community's quality of life. Transportation allows for **accomplish (18)** to food, healthcare, educational opportunities, and employment. **Laborious (19)** and affordable transportation is an important driver in economic growth in rural areas and helps ensure that people can obtain services and participate in public life. Rural residents are more **reliant (20)** on personally-owned, single driver automobiles for transportation than their urban **sessions (21)**. However, many rural residents are unable to rely on this mode of transportation.

- (a) excess
- (b) adapt
- (c) access
- (d) adopt
- (e) No replacement required

Q19. Transportation plays a/an **importance (17)** role in the livability of a community – the factors that influence a community's quality of life. Transportation allows for **accomplish (18)** to food, healthcare, educational opportunities, and employment. **Laborious (19)** and affordable transportation is an important driver in economic growth in rural areas and helps ensure that people can obtain services and participate in public life. Rural residents are more **reliant (20)** on personally-owned, single driver automobiles for transportation than their urban **sessions (21)**. However, many rural residents are unable to rely on this mode of transportation.

- (a) efficient
- (b) fledge
- (c) spawning
- (d) ominous
- (e) No replacement required

Q20. Transportation plays a/an **importance (17)** role in the livability of a community – the factors that influence a community's quality of life. Transportation allows for **accomplish (18)** to food, healthcare, educational opportunities, and employment. **Laborious (19)** and affordable transportation is an important driver in economic growth in rural areas and helps ensure that people can obtain services and participate in public life. Rural residents are more **reliant (20)** on personally-owned, single driver automobiles for transportation than their urban **sessions (21)**. However, many rural residents are unable to rely on this mode of transportation.

- (a) dependence
- (b) reliance
- (c) flex
- (d) refurbish
- (e) No replacement required

Q21. Transportation plays a/an **importance (17)** role in the livability of a community – the factors that influence a community's quality of life. Transportation allows for **accomplish (18)** to food, healthcare, educational opportunities, and employment. **Laborious (19)** and affordable transportation is an important driver in economic growth in rural areas and helps ensure that people can obtain services and participate in public life. Rural residents are more **reliant (20)** on personally-owned, single driver automobiles for transportation than their urban **sessions (21)**. However, many rural residents are unable to rely on this mode of transportation.

- (a) peer
- (b) vista
- (c) counsel
- (d) counterparts
- (e) No replacement required

Directions (22-26): **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 (e), i.e., No Error.**

Q22. **Empiricism** is **restated** by Paley, who is Kant's younger **contemporory** as a man and also on the whole as a **writer**.

- (a) Empiricism
- (b) restated
- (c) contemporory
- (d) writer
- (e) No error

Q23. **Critics** of **goverment** policy argue that the new **measures** introduced to fight crime are simply **papering** over the cracks.

- (a) Critics
- (b) goverment
- (c) measures
- (d) papering
- (e) No error

Q24. However **gradual** may be the growth of **confidence**, that of credit **requires** still more time to arrive at **maturity**.

- (a) gradual
- (b) confidence
- (c) requires
- (d) maturity
- (e) No error

Q25. The usually **fractious** oppositions must be united behind a single **candidate** if there is to be any chance of **unsitting** the **regime**.

- (a) fractious
- (b) candidate
- (c) unsitting
- (d) regime
- (e) No error

Q26. All **websites** with average or below average **content** become **victims** of **isolation** and cyber ostracism.

- (a) websites
- (b) content
- (c) victims
- (d) isolation
- (e) No error

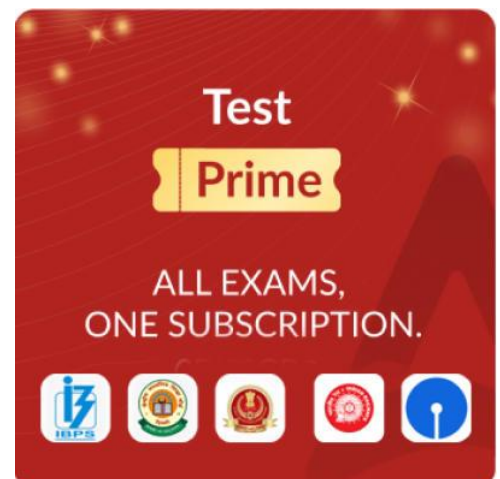
Directions (27-30): In each of the questions given below, a sentence has been divided into FIVE parts. Rearrange the parts of the sentence to make a grammatically correct and contextually meaningful statement.

Q27.

- (A) as light travels with a velocity of
- (B) distant object will take
- (C) about 3,00,000 km per second,
- (D) time to reach us on Earth
- (E) light from a
- (a) EACDB
- (b) ACEBD
- (c) No rearrangement required
- (d) BDCEA
- (e) DEABC

Q28.

- (A) soyabean and sunflower oil
- (B) the government to increase
- (C) duty-free import of crude
- (D) the association demanded
- (E) the quota fixed for
- (a) ABDEC
- (b) CBDAE
- (c) DBECA
- (d) BDCAE
- (e) No rearrangement required



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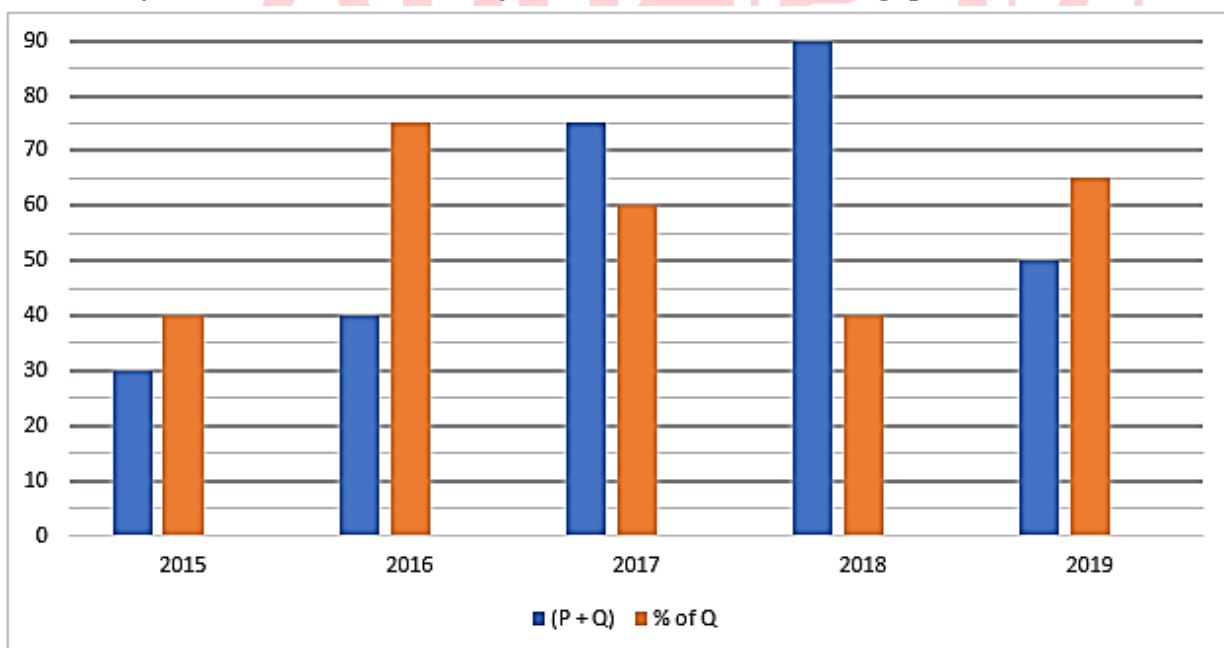
Q29.

- (A) the previous month driven
- (B) the U.S. government data showed
- (C) a sharp increase in the
- (D) by the rise in gasoline prices
- (E) consumer price index from
- (a) No rearrangement required
- (b) CBDAE
- (c) DEABC
- (d) BDECA
- (e) BCEAD

Q30.

- (A) river turning it into a toxic
- (B) plastic bags and milk bottles is
- (C) water body downstream
- (D) increasingly gagging the
- (E) polyethylene from discarded
- (a) ABDEC
- (b) CBDAE
- (c) EBDAC
- (d) BDCAE
- (e) No rearrangement required

Directions (31-35): Bar graph given below shows total number of Mobile (in hundred) manufactured by two different company P and Q together in five different years and also shows percentage of mobile manufactured by Q out of total mobiles manufactured by P & Q together in these five years. Read data carefully and answer the following questions:



Q31. Total mobile manufactured by Q in year 2017 and 2018 together is what percent more than total mobile manufactured by P in year 2015?

- (a) 400%
- (b) 450%
- (c) 375%
- (d) 350%
- (e) 250%

Q32. What is the average number of mobile manufactured by P in 2015, 2017 and 2018?

- (a) 3400
- (b) 3250
- (c) 3500
- (d) 3200
- (e) 3600

Q33. If mobile manufactured by P in year 2020 is half of the total mobile manufactured by P & Q together in year 2016 and ratio of mobile manufactured by P to Q in year 2020 is 5 : 3, then find mobile manufactured by Q in the year 2020 is how much less than mobile manufactured by P in year 2019?

- (a) 450
- (b) 550
- (c) 600
- (d) 750
- (e) 350

Q34. Total mobile manufactured by P in 2015 & 2019 together is what percent (approximate) of total mobile manufactured by Q in 2018?

- (a) 91%
- (b) 107%
- (c) 93%
- (d) 104%
- (e) 99%

Q35. What is the ratio of total mobile manufactured by P in 2016 and 2019 together to mobile manufactured by Q in 2018?

- (a) 72 : 55
- (b) 55 : 72
- (c) 55 : 78
- (d) 55 : 74
- (e) 55 : 76

Q36. A shopkeeper marked up an article 40% above its cost price and allowed two successive discounts of $d\%$ and 25% respectively on it. If shopkeeper made a loss of 16% on selling the article, then find 'd'

- (a) 5%
- (b) 20%
- (c) 10%
- (d) 15%
- (e) 25%

Q37. P and Q invested a total of Rs.32000 in a business. Period of investment of P & Q is 10 months and 8 months respectively. If at the end of the year, P & Q received profit in the ratio 3 : 4 respectively, then find amount invested by P.

- (a) Rs 20000
- (b) Rs 18000
- (c) Rs 14000
- (d) Rs 12000
- (e) Rs 16000

Q38. If diameter of the circle is equal to the side of the square having perimeter 112 cm, then find the difference between area of the square and that of the circle?

- (a) 180 cm^2
- (b) 178 cm^2
- (c) 168 cm^2
- (d) 154 cm^2
- (e) 152 cm^2

Q39. A boat covers 11.2 km in downstream in 24 minutes and ratio of speed of boat in still water to speed of stream is 5 : 2. Find ratio of time taken by boat to cover 27 km in upstream to time taken by boat to cover 105 km in downstream?

- (a) 5 : 3
- (b) 3 : 5
- (c) 3 : 4
- (d) 2 : 3
- (e) 1 : 3

Q40. A is 25% more efficient than B and he completes a task in 36 days. If C alone complete the same task in 30 days, then find all three (A, B & C) together can complete the same task in how many days?

- (a) 10 days
- (b) 15 days
- (c) 18 days
- (d) 12 days
- (e) 16 days

Q41. In what ratio, tea costing Rs 35 per kg should be mixed with tea costing Rs 28 per kg so that a profit of 20% is earned when the mixture is sold at Rs 36 per kg?

- (a) None of these
- (b) 3 : 4
- (c) 5 : 2
- (d) 3 : 5
- (e) 2 : 5

Q42. Present age of Deepa is 50% more than that of Shiva and age of Deepa 5 years ago was 50% of the age of Shiva 10 years hence. Find sum of their age five years later?

- (a) 30 years
- (b) 25 years
- (c) 45 years
- (d) 35 years
- (e) 20 years

Q43. The simple interest earned by Veer is 24% of the sum invested. If he had invested for four years more, then interest received is 150% more than that of earlier. What is the rate of interest?

- (a) 9%
- (b) 7.5%
- (c) 8%
- (d) 10%
- (e) 12.5%

Q44. 75% of A is equal to 40% of C and 80% of B is equal to 100% of A. If sum of 50% of B and 30% of C is equal to 95, then find 80% of A.

- (a) 72
- (b) 120
- (c) 80
- (d) 64
- (e) 96

Q45. A invested Rs. 20,000 at the rate of 20% compound interest for 1 year. Find the difference between interest received when it is compounded annually and when it is compounded semi-annually?

- (a) Rs. 150
- (b) Rs. 160
- (c) Rs. 240
- (d) Rs. 180
- (e) None of these

Directions (46-50): What will come in place of (?) in the following number series.

Q46. 70, 90, ?, 154, 198, 250

- (a) 112
- (b) 130
- (c) 124
- (d) 118
- (e) 106

Q47. 88, ?, 130, 196, 316, 508

- (a) 94
- (b) 100
- (c) 104
- (d) 118
- (e) 98

Q48. ?, 90, 126, 207, 351, 576

- (a) 81
- (b) 75
- (c) 72
- (d) 78
- (e) 84

Q49. 100, 101, 98, 107, 80, ?

- (a) 150
- (b) 161
- (c) 145
- (d) 132
- (e) 144

Q50. 2, 2, 3, 8, 35, ?

- (a) 170
- (b) 185
- (c) 204
- (d) 156
- (e) 144

Directions (51-65): What value should come in place of (?) in the following questions.

Q51. $8\frac{1}{6} + 4\frac{2}{3} - 7\frac{3}{4} + ? = 9\frac{8}{9}$

- (a) $4\frac{1}{9}$
- (b) $4\frac{5}{6}$
- (c) $4\frac{29}{36}$

(d) $4\frac{2}{9}$

(e) $3\frac{1}{9}$

Q52. $(0.005 \times 62.5) \div 1.25 = \frac{\sqrt{64}}{?}$

(a) 16

(b) 64

(c) 32

(d) 8

(e) 25

Q53. $[(31)^2 + (11)^2] \times (0.5)^2 = 19^2 - ?$

(a) 100.5

(b) 90.5

(c) 80.5

(d) 60.5

(e) 95.5

Q54. $12\% \text{ of } 550 + 18\% \text{ of } 600 - \frac{5}{6} \times 174 = ?$

(a) 32

(b) 27

(c) 37

(d) 29

(e) 31

Q55. $(20\% \text{ of } 30\% \text{ of } 60\% \text{ of } 750) + ? = \sqrt{841}$

(a) 5

(b) 4

(c) 3

(d) 7

(e) 2

Q56. $34 \times \frac{4}{17} \times \frac{1}{4} - 2 = ?$

(a) 0

(b) 3

(c) 5

(d) 4

(e) 8

Q57. $(11 + 13) \times \frac{1}{8} + 6 = 18 - ?$

- (a) 15
- (b) 13
- (c) 5
- (d) 9
- (e) 18

Q58. $119 + 41 + 9 = ?^2$

- (a) 10
- (b) 13
- (c) 17
- (d) 8
- (e) 16

Q59. $59 + 52 - 48 + ? = 86$

- (a) 27
- (b) 19
- (c) 23
- (d) 15
- (e) 30

Q60. $(15)^2 + (5)^3 + 50 = ?^2$

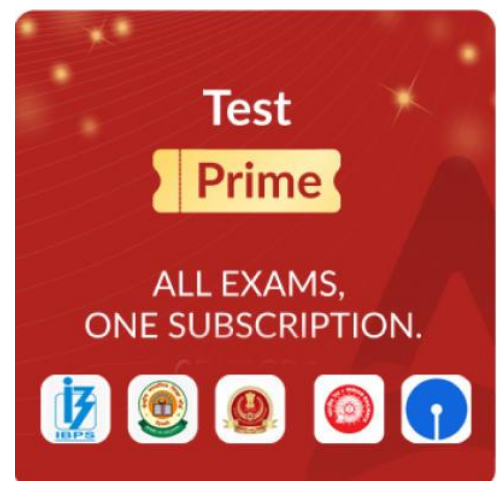
- (a) 28
- (b) 16
- (c) 25
- (d) 12
- (e) 20

Q61. $\sqrt{144 \times 36 \times 4} + 4500 \div 30 + 250 = ?$

- (a) 544
- (b) 555
- (c) 522
- (d) 511
- (e) 566

Q62. $12 \% \text{ of } ? + 12.5 \% \text{ of } 960 = 16 \times 12$

- (a) 840
- (b) 960
- (c) 800



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- (d) 600
(e) 400

Q63. $\sqrt[3]{2744} - \sqrt{484} + \sqrt[3]{1331} \times \sqrt[3]{125} = ?$

- (a) 45
(b) 41
(c) 38
(d) 47
(e) 53

Q64. $120 \div 5 \times 17 + 12.5 \times 400 = ?$

- (a) 5005
(b) 5505
(c) 5408
(d) 5308
(e) 5206

Q65. $264 \times 25 \div 120 = ? - 332$

- (a) 363
(b) 387
(c) 345
(d) 398
(e) 381

Directions (66-70): Study the following arrangement carefully and answer the following questions given below:

4 B % F H * I 2 D 1 M P 5 @ 8 # ^ G 7 ^ L U \$ W T Q 8 E 9 O 6

Q66. Four of the following five are alike in a certain way based on their positions in the given series and thus form a group. Which is the one that does not belong to that group?

- (a) 15P
(b) #7G
(c) HB4
(d) LW\$
(e) %*H

Q67. How many such letters are there in the given series each of which is immediately preceded by a symbol and immediately followed by a number?

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

(e) More than three

Q68. Which of the following element is seventh to the left of the sixth element from the right end in the given series?

- (a) ^
- (b) G
- (c) D
- (d) *
- (e) 7

Q69. Which of the following element is exactly between the element which is ninth from the right end and the one which is eleventh from the left end in the given series?

- (a) *
- (b) ^
- (c) I
- (d) 2
- (e) #

Q70. If all the symbols are dropped from the given series then which among the following will be the ninth to the right of P?

- (a) U
- (b) W
- (c) 4
- (d) T
- (e) Q

Directions (71-75): Study the following information carefully and answer the questions given below:

Eight boxes are placed one above the other. Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Box M is placed immediately above box L. Only three boxes are placed below box K. Box I is placed above box K and below box H. More than three boxes are there between box L and box N. Box N is not placed at the topmost position.

Q71. How many boxes are there between box J and box L?

- (a) None
- (b) Three
- (c) Two
- (d) One
- (e) More than three

Q72. Which of the following box is kept immediately above box H?

- (a) Box J
- (b) Box L

- (c) Box N
- (d) None
- (e) Box G

Q73. Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?

- (a) N-I
- (b) H-G
- (c) M-L
- (d) G-K
- (e) J-M

Q74. Which of the following statements is/are true?

- I. Box G is placed above box M
- II. Box M is placed at top most position
- III. Box H is placed below box N
- (a) Both I and II
- (b) Only III
- (c) Only I
- (d) Both I and III
- (e) All I, II, III

Q75. Number of boxes placed above box G is one more than number of boxes placed below ____.

- (a) Box J
- (b) Box K
- (c) Box M
- (d) Box L
- (e) Box N

Directions (76-78): Study the following information carefully and answer the questions given below:

- (i) A & B means A is 8m west of B.
- (ii) A % B means A is 5m South of B.
- (iii) A * B means A is 6m North of B.
- (iv) A @ B means A is 7m East of B.

Q76. If the expression 'W&R@S*F@T*U' is true, what is the shortest distance between R and T?

- (a) $6\sqrt{29}$ m
- (b) 9m
- (c) $6\sqrt{58}$ m
- (d) 7m
- (e) None of these

Q77. If the expression 'A@R*X&Z%Q@P' is true, what is the direction of A with respect to P?

- (a) West
- (b) East
- (c) South-west
- (d) South
- (e) None of these

Q78. If the expression 'Z*H%J@Y%T&R*L' is true, what is the shortest distance between R and Z?

- (a) 5m
- (b) $\sqrt{19}$ m
- (c) 4m
- (d) $\sqrt{17}$ m
- (e) None of these

Directions (79-83): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions. Mark your answer accordingly.

Q79.

Statements:

$A > B < C = D \leq E > F, F = G \geq H > I < J$

Conclusions:

I. $E > B$

II. $F > I$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If both conclusions I and II are true.
- (d) If either conclusion I or II is true.
- (e) If neither conclusion I nor II is true.

Q80.

Statements:

$P < B < Q \leq D \leq S > L, S = O < G > I = < M$

Conclusions:

I. $G > L$

II. $P > S$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If both conclusions I and II are true.
- (d) If either conclusion I or II is true.
- (e) If neither conclusion I nor II is true.

Q81.

Statements:

$$S = T \geq U = V \leq W > X, X < Y < Z > A < B$$

Conclusions:

I. $S > V$

II. $S = V$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If both conclusions I and II are true.
- (d) If either conclusion I or II is true.
- (e) If neither conclusion I nor II is true.

Q82.

Statements:

$$L = T \geq U = V \leq W > N, N = Y < Z > A < B$$

Conclusions:

I. $W > U$

II. $W > Y$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If both conclusions I and II are true.
- (d) If either conclusion I or II is true.
- (e) If neither conclusion I nor II is true.

Q83.

Statements:

$$M < N \geq O > P = Q < R, R < S < T = U > V$$

Conclusions:

I. $U > Q$

II. $N < Q$

- (a) If only conclusion I is true.
- (b) If only conclusion II is true.
- (c) If both conclusions I and II are true.
- (d) If either conclusion I or II is true.
- (e) If neither conclusion I nor II is true.

Directions (84-88): Study the following information carefully and answer the following questions.

Six persons P, Q, R, S, T and U get six different ranks in a test from 1 to 6 but not necessarily in the same order. Each of them likes six different fruits viz. Litchi, Grapes, Guava, Mango, Oranges, and Banana but not necessarily in the same order.

The one who likes Grapes gets the 6th rank. Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes. R gets the 4th rank. S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank.

Q84. Who likes Litchi?

- (a) T

- (b) The one who gets the 4th rank
(c) P
(d) Both (a) and (b)
(e) None of these

Q85. Who likes Grapes?

- (a) P
(b) S
(c) R
(d) The one who gets the 5th rank
(e) None of these

Q86. Who likes Mango?

- (a) P
(b) S
(c) R
(d) Cannot be determined
(e) None of these

Q87. The one who likes Guava gets which rank?

- (a) 5th
(b) 4th
(c) 2nd
(d) 3rd
(e) None of these

Q88. Four of the following five are alike in a certain way based on a group, which among the following does not belong to that group?

- (a) S- 3rd- Mango
(b) P- 6th-Grapes
(c) R-4th-Litchi
(d) Q- 5th-Guava
(e) Q- 2nd-Guava

Directions (89-91): In each question below are given some statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusion definitely follows from the given statements, disregarding commonly known facts. Give answer –

Q89. Statements:

All Bottles are Water
Only a few Water is Milk
Some Milk is not Syrup

Conclusions:

- I. Some Syrup is Water
- II. Some Water is Bottle
- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusions I and II follow
- (e) Neither Conclusion I nor II follows

Q90. Statements:

Some Cars are Truck
A few Trucks are Tractor
All Tractors are Train

Conclusions:

- I. Some Tractors are Car
- II. At least Some Trains are Truck
- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusions I and II follow
- (e) Neither Conclusion I nor II follows

Q91. Statements:

No All are Some
A few Some are Only
Some Only are 100%

Conclusions:

- I. Some 100% can be All
- II. All Only are Some
- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusions I and II follow
- (e) Neither Conclusion I nor II follows

Directions (92-96): **Study the following information carefully and answer the following questions.**

Seven persons A, B, C, D, E, F, and G were born on the 1st of seven different months of a year viz. January to July but not necessarily in the same order.

Three persons were born between A and F. E was born in a month just before F. D was born in a month before B but after G. C was born in a month having 30 days. Two persons were born between C and A who was not born in January.

Q92. Who was born in January?

- (a) E

- (b) G
- (c) F
- (d) B
- (e) None of these

Q93. Who was born in a month just after B?

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

Q94. How many persons are born between E and D?

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

Q95. E was born in which month?

- (a) February
- (b) January
- (c) March
- (d) June
- (e) None of these

Q96. Four of the following five are alike in a certain way based on a group, who among the following does not belong to that group?

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

Directions (97-98): Study the information carefully and answer the questions given below:

R, S, T, Q, W, P, and O are seven members of a family in which two are married couple. O is the maternal grandfather of W and Q. T is the son-in-law of P who is the mother of S. S is the uncle of Q who is the only son of R. P has only two children and one of them is unmarried. Q and W are siblings.

Q97. How is Q related to T?

- (a) Brother
- (b) Son
- (c) Son-in-law
- (d) Father
- (e) None of these

Q98. Who among the following is the son of O?

- (a) P
- (b) Q
- (c) Either (A) or (D)
- (d) S
- (e) None of these

Q99. Which of the following expression will be definitely true if the expression ' $F > G \leq C < X = W > P < L$ ' holds true?

- (a) $W > G$
- (b) $X \geq P$
- (c) $C > G$
- (d) $C = G$
- (e) None is true

Q100. In the given number '68314729', if the digits which are less than five are increased by 2 and the digits which are more than five are decreased by 1, then all the digits are arranged in ascending order from right to left. Find the square value of the sum of the digits which are third and seventh from right end in the number thus formed after the arrangement?

- (a) 121
- (b) 100
- (c) 144
- (d) 81
- (e) None of these

Solutions

S1. Ans.(c)

Sol. The correct choice is option (c) which can be inferred from the first paragraph which mentions, "A worm burrows its way through the dark earth, ingesting particles of soil and expelling nutrient-rich casts in a constant forage for food."

S2. Ans.(e)

Sol. By going through the second paragraph which mentions "We might imagine soil as endless andbut it can be destroyed in minutes" we can infer that all the given options are correct.

S3. Ans.(b)

Sol. The correct choice is option (b) which can be inferred from the third paragraph which mentions, "Healthy soil is a dynamic living ecosystem: a complex combination of minerals and organic matter containing air, water, and life."

S4. Ans.(e)

Sol. To validate the answer, refer to the last paragraph which mentions, **“Pollution kills microbial life in the soil; deforestation and development disturb soil structure making it vulnerable to erosion; soil compaction associated with farming and urbanization squeezes the air out of the ground and prevents it from absorbing water. Meanwhile, climate change continues to dry the ground: three-quarters of Spain is at risk of becoming desert.”**

S5. Ans.(d)

Sol. All the given statements are true as per the information given in the passage.

Refer to the last paragraph which mentions, **“Worms are not alone in the ground, just a gram of dirt can contain as many as 50,000 species, all interacting with each other to keep their soil habitat healthy and productive.”**

“But human activity is destroying the balance and one-third of the world’s soil is already degraded. Soil degradation, where soil loses the physical, chemical, or biological qualities that support life, is a natural process but it is being accelerated by human activity.”

S6. Ans.(a)

Sol. ‘Trivial’ is an antonym of ‘critical’

critical means having a decisive or crucial importance in the success, failure, or existence of something.
trivial means of little value or importance.

steep means rising or falling sharply; almost perpendicular.

savage means fierce, violent, and uncontrolled.

nasty means very bad or unpleasant.

S7. Ans.(c)

Sol. ‘Dismantle’ is a synonym of ‘destroyed’

relieved means a feeling of reassurance and relaxation following release from anxiety or distress.

firmed means having a solid, almost unyielding surface or structure.

dismantled means take (a machine or structure) to pieces.

chaotic means in a state of complete confusion and disorder.

S8. Ans.(d)

Sol. The correct phrase for the given blank is ‘is remarkably fragile’.

S9. Ans.(b)

Sol. The correct word for the given blank is ‘withdrawal’.

(a) merge means combine or cause to combine to form a single entity.

(b) withdrawal means the action of ceasing to participate in an activity.

(c) renounce means formally declare one's abandonment of (a claim, right, or possession).

(d) lucid means expressed clearly; easy to understand.

(e) combat means fighting between armed forces.

S10. Ans.(d)

Sol. The correct word for the given blank is 'experience'

- (a) gather means come together; assemble or accumulate.
- (b) attract means cause to come to a place or participate in a venture by offering something of interest or advantage
- (c) mutate means change in form or nature.
- (d) experience means encounter or undergo (an event or occurrence).
- (e) vacant means not occupied; empty.

S11. Ans.(e)

Sol. The correct word for the given blank is 'impacts'

- (a) affects means have an effect on; make a difference to.
- (b) output means the amount of something produced by a person, machine, or industry.
- (c) resulting means occurring or following as the consequence of something.
- (d) vindicate means clear (someone) of blame or suspicion.
- (e) impacts means a marked effect or influence.

S12. Ans.(a)

Sol. The error free part is (B). In part (A), 'no' longest' should be replaced with 'no longer' which means 'not any more'. In part (C), 'manifest' should be 'manifests' for singular noun 'influence'. In part (D), 'themselves' should be replaced with 'itself' for singular noun 'influence'.

S13. Ans.(b)

Sol. The error free part is (D). In part (A), singular verb 'covers' should be plural i.e. 'cover' for plural noun 'forests'. In part (B), 'world' should be 'world's' to show possession. In part (C), 'therefore' should be 'but' to introduce a phrase or clause contrasting with what has already been mentioned.

S14. Ans.(c)

Sol. The error free part is (A). In part (B), 'is' should be 'are' for start-ups. In part (C), 'its' should be 'their' for plural noun. In part (D), 'others' should be 'other' as we need adjective here while 'others' is pronoun.

S15. Ans.(c)

Sol. The error free part is (A). In part (B), 'direct' which is an adjective should be replaced with 'directly' which is an adverb. In part (C), 'an' should be replaced with 'a'. In part (D), 'who' should be 'that' because the word "who" refers to people, while the word "that" refers to things and sometimes people.

S16. Ans.(b)

Sol. The error free part is (D). In part (A), 'is' should be 'are' for 'sports' which is plural. In part (B), 'getting' should be 'get' because after 'to' we use V1. In part (C), 'diverse with' should be 'diverse from'.

S17. Ans.(b)

Sol. The given sentence is talking about transportation's important role in the livability of a community and grammatically we need adjective here therefore the correct replacement is '**critical**'.

alluring means powerfully and mysteriously attractive or fascinating; seductive.

critical means having a decisive or crucial importance in the success, failure, or existence of something.

dilemma means a situation in which a difficult choice has to be made between two or more alternatives, especially ones that are equally undesirable.

curious means eager to know or learn something

S18. Ans.(c)

Sol. The given sentence is mentioning that transportation allows people to reach to food, health and education etc. Therefore, the correct replacement is '**access**'

accomplish means achieve or complete successfully.

excess means an amount of something that is more than necessary, permitted, or desirable.

adapt means make (something) suitable for a new use or purpose; modify.

access means the right or opportunity to use or benefit from something. adopt means

S19. Ans.(a)

Sol. The given sentence is talking about importance of efficient and affordable transportation in economic growth therefore the correct replacement is '**efficient**'.

efficient means achieving maximum productivity with minimum wasted effort or expense

fledge means develop wing feathers that are large enough for flight.

spawning means release or deposit eggs.

ominous means giving the worrying impression that something bad is going to happen; threateningly inauspicious

S20. Ans.(e)

Sol. The given highlighted word is correct hence **no replacement required**.

reliance means dependence on or trust in someone or something.

flex means bend or become bent.

refurbish means renovate and redecorate (something, especially a building).

S21. Ans.(d)

Sol. The given sentence is talking about the reliance of rural people on personal vehicles and single-driver automobiles for transportation than their urban counterparts. Therefore, the correct replacement is '**counterparts**'.

peer means look with difficulty or concentration at someone or something.

vista means a pleasing view.

counsel means advice, especially that given formally.

counterparts means a person or thing that corresponds to or has the same function as another person or thing in a different place or situation.

S22. Ans.(c)

Sol. The correct spelling of the word is "contemporary".

S23. Ans.(b)

Sol. The correct spelling of the word is “government”.

S24. Ans.(e)

Sol. All the highlighted words of the sentence are correct.

S25. Ans.(c)

Sol. The correct word should be “unseating”.

S26. Ans.(e)

Sol. All the highlighted words of the sentence are correct.

S27. Ans.(b)

Sol. Going through all phrases it can be seen that the given sentence is talking about the speed of the light and the time it takes to reach the earth. So on the basis of this, it can be seen that the correct sequence of the phrases is **ACEBD**. Thus, the formed sentence will be “As light travels with a velocity of about 3,00,000 km per second, light from a distant object will take time to reach us on Earth.”

S28. Ans.(c)

Sol. Going through all phrases it can be seen that the given sentence is talking about the association’s demand to increase quota fixed for duty-free import of crude soyabean and sunflower oil. So on the basis of this, it can be seen that the correct sequence of the phrases is **DBECA**. Thus, the formed sentence will be “The association demanded the government to increase the quota fixed for duty-free import of crude soyabean and sunflower oil”

S29. Ans.(e)

Sol. Going through all phrases it can be seen that the given sentence is talking about the increase in the Consumer Price Index due to the increase in gasoline prices, according to the U.S. government data. So on the basis of this, it can be seen that the correct sequence of the phrases is **BCEAD**. Thus, the formed sentence will be “The U.S. government data showed a sharp, faster-than-expected increase in the consumer price index (CPI) from the previous month driven by the significant rise in gasoline prices.”

S30. Ans.(c)

Sol. Going through all phrases it can be seen that the given sentence is talking about polythene which is choking the river and turning the river into a toxic waterbody. So on the basis of this, it can be seen that the correct sequence of the phrases is **EBDAC**. Thus, the formed sentence will be “Polyethylene from discarded plastic bags and milk bottles is increasingly gagging the river turning it into a toxic water body downstream.

S31. Ans.(d)

Sol.

$$\text{Total mobile manufactured by Q in year 2017 and 2018 together} = 7500 \times \frac{60}{100} + 9000 \times \frac{40}{100} = 8100$$

$$\text{Total mobile manufactured by P in year 2015} = 3000 \times \frac{(100-40)}{100} = 1800$$

$$\text{Required percentage} = \frac{8100-1800}{1800} \times 100 = 350\%$$

S32. Ans.(a)

Sol.

Total mobile manufactured by P in 2015, 2017 & 2018 together

$$= 3000 \times \frac{(100-40)}{100} + 7500 \times \frac{(100-60)}{100} + 9000 \times \frac{(100-40)}{100}$$

$$= 1800 + 3000 + 5400$$

$$= 10200$$

$$\text{Required average} = \frac{10200}{3} = 3400$$

S33. Ans.(b)

Sol.

$$\text{Total mobile manufactured by P in year 2020} = 4000 \times \frac{1}{2} = 2000$$

$$\text{Total mobile manufactured by Q in year 2020} = 2000 \times \frac{3}{5} = 1200$$

$$\text{Total mobile manufactured by P in year 2019} = 5000 \times \frac{35}{100} = 1750$$

$$\text{Required difference} = 1750 - 1200 = 550$$

S34. Ans.(e)

Sol.

$$\text{Total mobile manufactured by P in 2015 & 2019 together} = 3000 \times \frac{60}{100} + 5000 \times \frac{35}{100}$$

$$= 1800 + 1750$$

$$= 3550$$

$$\text{Total mobile manufactured by Q in 2018} = 9000 \times \frac{40}{100} = 3600$$

$$\text{Required percentage} = \frac{3550}{3600} \times 100 \approx 98.61\% = 99\% \text{ (approx.)}$$

S35. Ans.(b)

Sol.

$$\text{Total mobile manufactured by P in 2016 and 2019 together} = 4000 \times \frac{25}{100} + 5000 \times \frac{35}{100}$$

$$= 1000 + 1750$$

$$= 2750$$

$$\text{Total mobile manufactured by Q in 2018} = 9000 \times \frac{40}{100} = 3600$$

$$\text{Required ratio} = 2750 : 3600 = 55 : 72$$

S36. Ans.(b)

Sol.

Let cost price of article = Rs.100x
 Marked price of article = Rs.140x
 And selling price of article = Rs.84x
 ATQ,
 $140x \times \frac{(100-d)}{100} \times \frac{75}{100} = 84x$
 $d = 20\%$

S37. Ans.(d)

Sol.

Let amount invested by P be Rs.p
 So, amount invested by Q = Rs. (32000 - p)
 So, profit sharing ratio of P to Q = $(p \times 10) : ((32000 - p) \times 8)$
 $= 5p : (128000 - 4p)$
 ATQ,
 $\frac{5p}{128000 - 4p} = \frac{3}{4}$
 $p = \text{Rs } 12000$

S38. Ans.(c)

Sol.

Diameter of the circle = $\frac{112}{4} = 28 \text{ cm}$
 Area of the square = 784 cm^2
 Area of the circle = $\pi r^2 = 616 \text{ cm}^2$
 Required difference = 168 cm^2

S39. Ans.(b)

Sol.

Let speed of boat in still water and speed of stream be $5x \text{ km/hr}$ and $2x \text{ km/hr}$ respectively
 Downstream speed of boat = $11.2 \times \frac{60}{24} = 28 \text{ km/hr}$
 ATQ -
 $(5x + 2x) = 28$
 $x = 4 \text{ km/hr}$
 So, Upstream speed of boat = $(5 \times 4 - 2 \times 4) = 12 \text{ km/hr}$
 Required time = $\frac{\frac{27}{105}}{\frac{12}{28}} = 3 : 5$

S40. Ans.(d)

Sol.

Ratio of efficiency of A & B = 125% : 100% = 5 : 4

So, ratio of time taken by A & B = 4 : 5

B alone can complete the same task = $\frac{36}{4} \times 5 = 45$ days

Total work = 180 units (LCM of days taken by A, B & C)

efficiency of A = $\frac{180}{36} = 5$ units/day

efficiency of B = $\frac{180}{45} = 4$ units/day

efficiency of C = $\frac{180}{30} = 6$ units/day

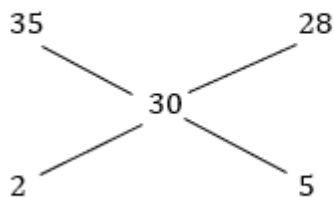
Required time = $\frac{180}{(5+4+6)} = 12$ days

S41. Ans.(e)

Sol.

CP of mixture = Rs 30 per kg

Using allegation



Required ratio = 2 : 5

S42. Ans.(d)

Sol.

Let present age of Shiva be '2x' years.

Then present age of Deepa = 3x years

ATQ,

$$\frac{3x - 5}{2x + 10} = \frac{1}{2}$$

$$6x - 10 = 2x + 10$$

$$4x = 20$$

$$x = 5$$

$$\begin{aligned} \text{Required age} &= (3x + 2x) + 10 \\ &= 35 \text{ years} \end{aligned}$$

S43. Ans.(a)

Sol.

Let the sum invested be Rs. 100x.

simple interest received in later case = $24 \times 2.5 = 60\%$

Let 24% interest is received when he invested for 'y' years

$$y = 24\%$$

$$y + 4 = 60\%$$

$$4 \text{ years} \rightarrow 36\%$$

Required rate of interest = 9% per annum

S44. Ans.(d)

Sol.

Let A be $100x$.

$$\text{So, } C = \frac{75}{100} \times 100x \times \frac{100}{40} \\ = \frac{375x}{2}$$

$$\text{And, } B = 100x \times \frac{100}{80} \\ = 125x$$

ATQ,

$$\frac{50}{100} \times 125x + \frac{30}{100} \times \frac{375x}{2} = 95 \\ 62.5x + 56.25x = 95$$

$$x = 0.8$$

$$\text{Required value} = \frac{80}{100} \times 100 \times 0.8 \\ = 64$$

S45. Ans.(e)

Sol.

Rate of interest when it is compounded semi annually

$$r = 10\%$$

equivalent rate of interest at 20% p.a. CI compounding semiannually for 1 year

$$= 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

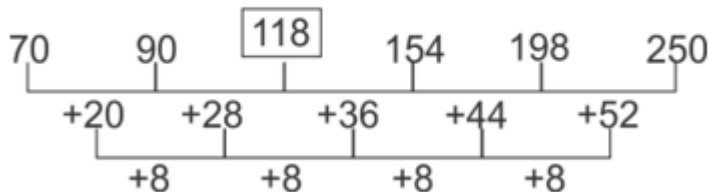
$$\text{Required difference} = \frac{21-20}{100} \times 20000 = \text{Rs } 200$$

S46. Ans.(d)

Sol.

Missing number = 118

Pattern of series -

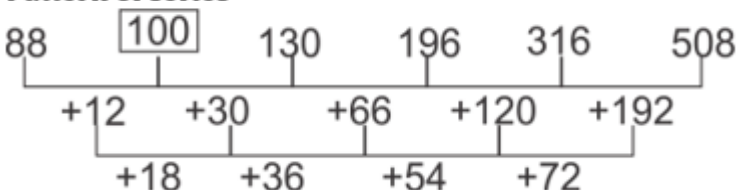


S47. Ans.(b)

Sol.

Missing number = 100

Pattern of series -

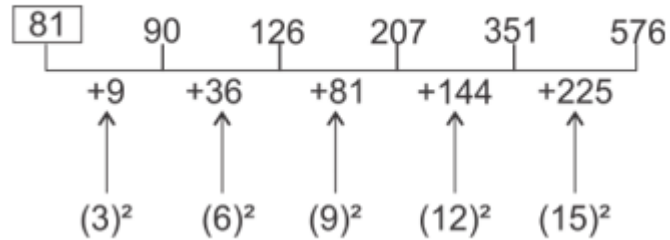


S48. Ans.(a)

Sol.

Missing number = 81

Pattern of series -

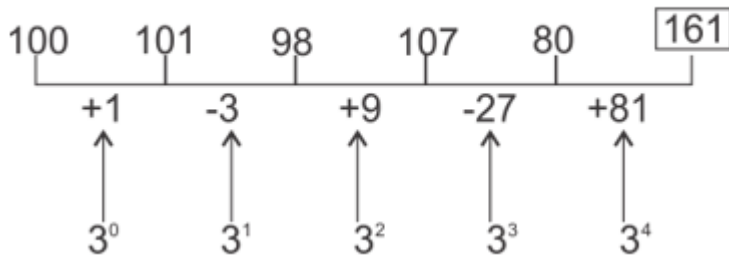


S49. Ans.(b)

Sol.

Missing number = 161

Pattern of series -

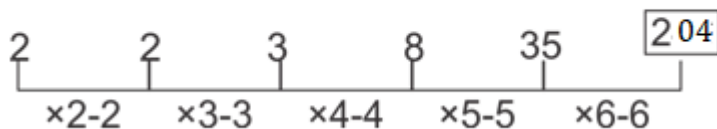


S50. Ans.(c)

Sol.

Missing number = 204

Pattern of series -



S51. Ans.(c)

Sol.

$$8\frac{1}{6} + 4\frac{2}{3} - 7\frac{3}{4} + ? = 9\frac{8}{9}$$

$$? = 4 \left[\frac{8}{9} + \frac{3}{4} - \frac{2}{3} - \frac{1}{6} \right]$$

$$= 4 \left[\frac{29}{36} \right]$$

S52. Ans.(c)

Sol.

$$(0.005 \times 62.5) \div 1.25 = \frac{\sqrt{64}}{?}$$

$$\frac{5 \times 625}{1000 \times 10} \times \frac{100}{125} = \frac{8}{?}$$

$$? = 8 \times 4 = 32$$

S53. Ans.(b)

Sol.

$$[(31)^2 + (11)^2] \times (0.5)^2 = 19^2 - ?$$

$$[961 + 121] \times 0.25 = 361 - ?$$

$$? = 361 - 270.5$$

$$? = 90.5$$

S54. Ans.(d)

Sol.

$$\frac{12}{100} \times 550 + \frac{18}{100} \times 600 - 5 \times 29 = ?$$

$$66 + 108 - 145 = ?$$

$$? = 29$$

S55. Ans.(e)

Sol.

$$\left(\frac{20}{100} \times \frac{30}{100} \times \frac{60}{100} \times 750 \right) + ? = 29$$

$$? = 29 - 27$$

$$= 2$$

S56. Ans.(a)

Sol.

$$34 \times \frac{4}{17} \times \frac{1}{4} - 2 = ?$$

$$? = 0$$

S57. Ans.(d)

Sol.

$$(11 + 13) \times \frac{1}{8} + 6 = 18 - ?$$

$$? = 9$$

S58. Ans.(b)

Sol.

$$119 + 41 + 9 = ?^2$$

$$? = 13$$

S59. Ans.(c)

Sol.

$$59 + 52 - 48 + ? = 86$$

$$? = 86 - 63 = 23$$

S60. Ans.(e)

Sol.

$$\begin{aligned}15^2 + 5^3 + 50 &= ?^2 \\225 + 125 + 50 &= ?^2 \\?^2 &= 400 \\? &= 20\end{aligned}$$

S61. Ans.(a)

Sol.

$$\begin{aligned}12 \times 6 \times 2 + 150 + 250 &= ? \\? &= 544\end{aligned}$$

S62. Ans.(d)

Sol.

$$\begin{aligned}\frac{12}{100} \times ? + \frac{1}{8} \times 960 &= 192 \\\frac{12}{100} \times ? &= 192 - 120 \\\frac{12}{100} \times ? &= 72 \\? &= 600\end{aligned}$$

S63. Ans.(d)

Sol.

$$\begin{aligned}? &= 14 - 22 + 11 \times 5 \\? &= 47\end{aligned}$$

S64. Ans.(c)

Sol.

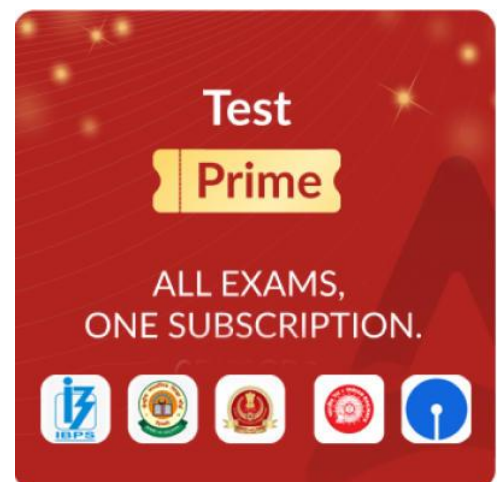
$$\begin{aligned}24 \times 17 + \frac{25}{2} \times 400 &= ? \\408 + 5000 &= ? \\? &= 5408\end{aligned}$$

S65. Ans.(b)

Sol.

$$\begin{aligned}264 \times 25 \times \frac{1}{120} &= ? - 332 \\? &= 55 + 332 \\? &= 387\end{aligned}$$

S66. Ans.(c)



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S67. Ans.(c)

Sol. *I2, ^G7

S68. Ans.(e)

S69. Ans.(b)

S70. Ans.(e)

S71. Ans.(d)

Sol. From the given statements, Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Only three boxes are placed below box K. Box I is placed above box K and below box H. So we have three cases:

Case-1	Case-2	Case-3
Boxes	Boxes	Boxes
G	H	H/
H	G	H/
I	I	I
		G
K	K	K
J	J	J

Box M is placed immediately above box L. More than three boxes are there between box L and box N. So case-1 and case-2 is eliminated. Box N is not placed at the topmost position. Hence the final arrangement is:

Boxes
H
N
I
G
K
J
M
L

S72. Ans.(d)

Sol. From the given statements, Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Only three boxes are placed below box K. Box I is placed above box K and below box H. So we have three cases:

Case-1	Case-2	Case-3
Boxes	Boxes	Boxes
G	H	H/
H	G	H/
I	I	I
		G
K	K	K
J	J	J

Box M is placed immediately above box L. More than three boxes are there between box L and box N. So case-1 and case-2 is eliminated. Box N is not placed at the topmost position. Hence the final arrangement is:

Boxes
H
N
I
G
K
J
M
L

S73. Ans.(b)

Sol. From the given statements, Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Only three boxes are placed below box K. Box I is placed above box K and below box H. So we have three cases:

Case-1	Case-2	Case-3
Boxes	Boxes	Boxes
G	H	H/
H	G	H/
I	I	I
		G
K	K	K
J	J	J

Box M is placed immediately above box L. More than three boxes are there between box L and box N. So case-1 and case-2 is eliminated. Box N is not placed at the topmost position. Hence the final arrangement is:

Boxes
H
N
I
G
K
J
M
L

S74. Ans.(c)

Sol. From the given statements, Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Only three boxes are placed below box K. Box I is placed above box K and below box H. So we have three cases:

Case-1 Boxes	Case-2 Boxes	Case-3 Boxes
G	H	H/
H	G	H/
I	I	I
		G
K	K	K
J	J	J

Box M is placed immediately above box L. More than three boxes are there between box L and box N. So case-1 and case-2 is eliminated. Box N is not placed at the topmost position. Hence the final arrangement is:

Boxes
H
N
I
G
K
J
M
L

S75. Ans.(a)

Sol. From the given statements, Not more than three boxes are placed above box G. Only two boxes are placed between box J and box I. Number of boxes placed below box J is same as number of boxes placed above box I. Only three boxes are placed below box K. Box I is placed above box K and below box H. So we have three cases:

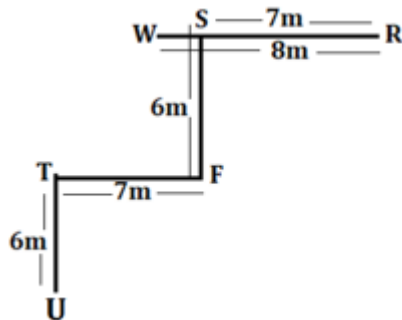
Case-1 Boxes	Case-2 Boxes	Case-3 Boxes
G	H	H/
H	G	H/
I	I	I
		G
K	K	K
J	J	J

Box M is placed immediately above box L. More than three boxes are there between box L and box N. So case-1 and case-2 is eliminated. Box N is not placed at the topmost position. Hence the final arrangement is:

Boxes
H
N
I
G
K
J
M
L

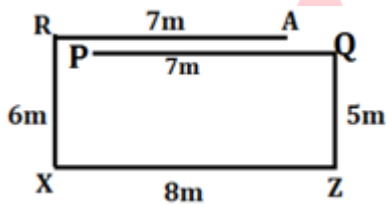
S76. Ans.(e)

Sol.



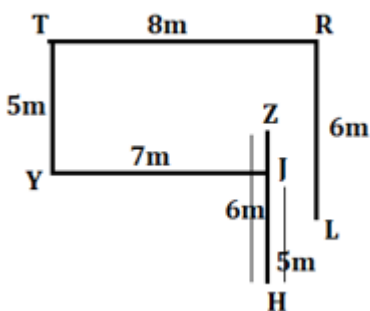
S77. Ans.(e)

Sol.



S78. Ans.(d)

Sol.



S79. Ans.(c)

Sol. I. $E > B$ (True) II. $F > I$ (True)

S80. Ans.(a)

Sol. I. $G > L$ (True) II. $P > S$ (False)

S81. Ans.(d)

Sol. I. $S > V$ (False) II. $S = V$ (False)

But they make a complementary pair so either $S > V$ or $S = V$ will be true.

S82. Ans.(b)

Sol. I. $W > U$ (False) II. $W > Y$ (True)

S83. Ans.(a)

Sol. I. $U > Q$ (True) II. $N < Q$ (False)

S84. Ans.(b)

Sol. By using all the given information:

S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank. The one who likes Grapes gets the 6th rank.

Persons	Fruits	Ranks
S		3rd
U	Banana	1st
	Grapes	6th

Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes, so T likes Oranges. R gets the 4th rank, so P gets the 6th rank. S likes Mango and R likes Litchi. Q gets the 5th and T gets the 2nd rank. Now we have our final arrangements.

Persons	Fruits	Ranks
S	Mango	3rd
U	Banana	1st
P	Grapes	6th
Q	Guava	5th
T	Oranges	2nd
R	Litchi	4th

S85. Ans.(a)

Sol. By using all the given information:

S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank. The one who likes Grapes gets the 6th rank.

Persons	Fruits	Ranks
S		3rd
U	Banana	1st
	Grapes	6th

Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes, so T likes Oranges. R gets the 4th rank, so P gets the 6th rank. S likes Mango and R likes Litchi. Q gets the 5th and T gets the 2nd rank. Now we have our final arrangements.

Persons	Fruits	Ranks
S	Mango	3rd
U	Banana	1st
P	Grapes	6th
Q	Guava	5th
T	Oranges	2nd
R	Litchi	4th

S86. Ans.(b)

Sol. By using all the given information:

S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank. The one who likes Grapes gets the 6th rank.

Persons	Fruits	Ranks
S		3rd
U	Banana	1st
	Grapes	6th

Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes, so T likes Oranges. R gets the 4th rank, so P gets the 6th rank. S likes Mango and R likes Litchi. Q gets the 5th and T gets the 2nd rank. Now we have our final arrangements.

Persons	Fruits	Ranks
S	Mango	3rd
U	Banana	1st
P	Grapes	6th
Q	Guava	5th
T	Oranges	2nd
R	Litchi	4th

S87. Ans.(a)

Sol. By using all the given information:

S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank. The one who likes Grapes gets the 6th rank.

Persons	Fruits	Ranks
S		3rd
U	Banana	1st
	Grapes	6th

Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes, so T likes Oranges. R gets the 4th rank, so P gets the 6th rank. S likes Mango and R likes Litchi. Q gets the 5th and T gets the 2nd rank. Now we have our final arrangements.

Persons	Fruits	Ranks
S	Mango	3rd
U	Banana	1st
P	Grapes	6th
Q	Guava	5th
T	Oranges	2nd
R	Litchi	4th

S88. Ans.(e)

Sol. By using all the given information:

S gets the 3rd rank but he does not like Litchi or Grapes. U likes Banana and he gets the 1st rank. The one who likes Grapes gets the 6th rank.

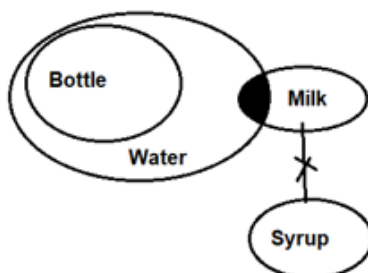
Persons	Fruits	Ranks
S		3rd
U	Banana	1st
	Grapes	6th

Q likes Guava but he does not get the 2nd rank. T does not like Mango, Litchi or Grapes, so T likes Oranges. R gets the 4th rank, so P gets the 6th rank. S likes Mango and R likes Litchi. Q gets the 5th and T gets the 2nd rank. Now we have our final arrangements.

Persons	Fruits	Ranks
S	Mango	3rd
U	Banana	1st
P	Grapes	6th
Q	Guava	5th
T	Oranges	2nd
R	Litchi	4th

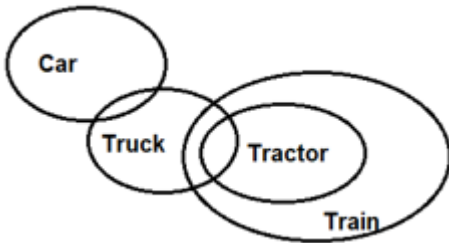
S89. Ans.(b)

Sol.



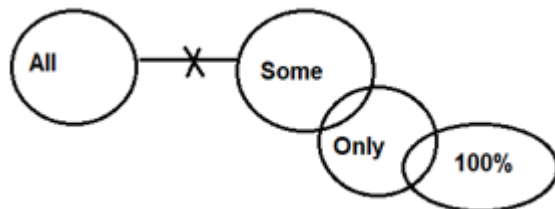
S90. Ans.(b)

Sol.



S91. Ans.(a)

Sol.



S92. Ans.(b)

Sol. By using all the given information:

C was born in a month having 30 days. We have two possible cases for that. Case1 and Case2. Two persons were born between C and A who was not born in January. Three persons were born between A and F.

	Case1	Case2
Months	Persons	Persons
January		
February		
March	F	A
April	C	
May		
June		C
July	A	F

E was born in a month just before F. Now case 2 will be eliminated as we can't place E. D was born in a month before B but after G. Now we have our final arrangements.

Months	Persons
January	G
February	E
March	F
April	C
May	D
June	B
July	A

S93. Ans.(a)

Sol. By using all the given information:

C was born in a month having 30 days. We have two possible cases for that. Case1 and Cse2. Two persons were born between C and A who was not born in January. Three persons were born between A and F.

	Case1	Case2
Months	Persons	Persons
January		
February		
March	F	A
April	C	
May		
June		C
July	A	F

E was born in a month just before F. Now case 2 will be eliminated as we can't place E. D was born in a month before B but after G. Now we have our final arrangements.

Months	Persons
January	G
February	E
March	F
April	C
May	D
June	B
July	A

S94. Ans.(c)

Sol. By using all the given information:

C was born in a month having 30 days. We have two possible cases for that. Case1 and Cse2. Two persons were born between C and A who was not born in January. Three persons were born between A and F.

	Case1	Case2
Months	Persons	Persons
January		
February		
March	F	A
April	C	
May		
June		C
July	A	F

E was born in a month just before F. Now case 2 will be eliminated as we can't place E. D was born in a month before B but after G. Now we have our final arrangements.

Months	Persons
January	G
February	E
March	F
April	C
May	D
June	B
July	A

S95. Ans.(a)

Sol. By using all the given information:

C was born in a month having 30 days. We have two possible cases for that. Case1 and Cse2. Two persons were born between C and A who was not born in January. Three persons were born between A and F.

	Case1	Case2
Months	Persons	Persons
January		
February		
March	F	A
April	C	
May		
June		C
July	A	F

E was born in a month just before F. Now case 2 will be eliminated as we can't place E. D was born in a month before B but after G. Now we have our final arrangements.

Months	Persons
January	G
February	E
March	F
April	C
May	D
June	B
July	A

S96. Ans.(e)

Sol. By using all the given information:

C was born in a month having 30 days. We have two possible cases for that. Case1 and Cse2. Two persons were born between C and A who was not born in January. Three persons were born between A and F.

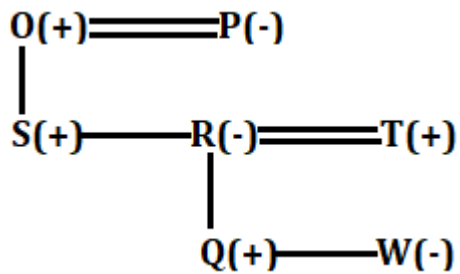
	Case1	Case2
Months	Persons	Persons
January		
February		
March	F	A
April	C	
May		
June		C
July	A	F

E was born in a month just before F. Now case 2 will be eliminated as we can't place E. D was born in a month before B but after G. Now we have our final arrangements.

Months	Persons
January	G
February	E
March	F
April	C
May	D
June	B
July	A

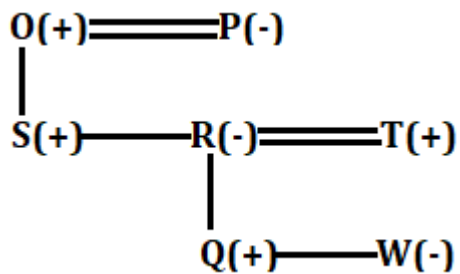
S97. Ans.(b)

Sol.



S98. Ans.(d)

Sol.



S99. Ans.(a)

S100. Ans.(c)

Sol.

Original number= 68314729

Final number= 87665543

Square of the sum of the third and seventh digits from the right end= $5+7=12=12 \times 12=144$

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