

SSC Selection Post Free Mock

Q1. Which letter cluster will replace the question mark (?) to complete the given series?

AZT, DWQ, GTN, ?, MNH

- (a) IQK
- (b) JQK
- (c) JQM
- (d) JQN

Q2. Which of the following numbers will replace the question mark (?) in the given series?

7, 8, 18, 57, ?

- (a) 222
- (b) 230
- (c) 288
- (d) 232

Q3. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

- (3, 9, 90)
- (2, 5, 29)
- (a) (4, 1, 23)
- (b) (7, 6, 63)
- (c) (5, 17, 26)
- (d) (5, 8, 89)

Q4. A # B means 'A is the son of B'.

A @ B means 'A is the mother of B'.

A & B means 'A is the wife of B'.

A % B means 'A is the father of B'.

If W@ V # S #T & Q, then how is Q related to V?

- (a) Grand mother
- (b) Grand father
- (c) Grand son
- (d) Father

Q5. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some callers are fake.

All fake are dishonest

No dishonest is poor

Conclusions:

I. Some dishonest are callers

II. All dishonest are fake

III. All fake are poor

IV. Some poor are dishonest.

(a) Only I follow

(b) Only conclusions I and IV follow

(c) Only conclusions III follow

(d) Only conclusions II follow

Q6. In a certain code 'CAPTION' is written as 'YALHSMN'. Which word would be coded as 'LAPTOP'?

(a) PALGNL

(b) PLAMLN

(c) PALHML

(d) PLAHML

Q7. Find the odd one out.

(a) 73: 55

(b) 91: 82

(c) 82: 53

(d) 46: 37

Q8. If 'hee see pee' means 'Drink dark coffee', 'see tee lee' means 'coffee is sweet' and 'lee ree mee' means 'She is intelligent' then, which word in that language means 'Sweet' ?

(a) see

(b) tee

(c) lee

(d) pee

Q9. If + denotes -, - denotes *, * denotes × and × denotes ÷, then what will be the value of $37 + 35 \times 7 + 14 * 2$.

(a) 2

(b) 4

(c) -2

(d) -4

Q10. Select the option that is related to the third number in the same way as the second number is related to the first number.

3759: 44 :: 6948: ?

(a) 52

(b) 42

(c) 34

(d) 37

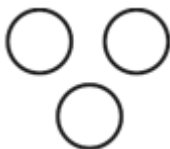


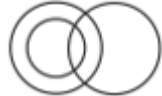
Q11. Select the combination of letters when they are arranged in the gaps of the given letter will complete the given series.

A _ A _ C _ B A B _ A _

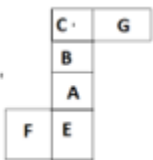
- (a) BBCAB
- (b) BBAAB
- (c) BBACC
- (d) BBACB

Q12. Select the Venn diagram that best illustrates the relationship between the following classes.

Aunt, Relatives, Rich

- (a) 
- (b) 
- (c) 
- (d) 

Q13. What will be on the face opposite to the face which contain A and B respectively?



- (a) F and E
- (b) G and C
- (c) E and C
- (d) C and E

Q14. There are three individuals, A, B, and C, who have money in the ratio of 8:9:11. The total amount of money they have is 3920. What is the difference between the amount of A and C.

- (a) Rs. 410
- (b) Rs. 140
- (c) Rs. 280
- (d) Rs. 420

Q15. Arrange the following words in a logical and meaningful order.

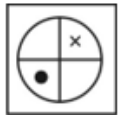
N=1, I= 6, Q=5, U= 3, E=2 , U=4

- (a) 3, 1, 6, 5, 4, 2
- (b) 2, 3, 4, 1, 5, 6
- (c) 6, 4, 3, 1, 2, 5
- (d) 2, 4, 3, 6, 1, 5

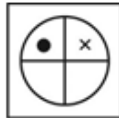
Q16. Select the figure that will come next in the following series?



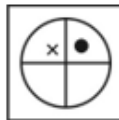
(a)



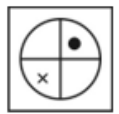
(b)



(c)



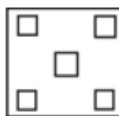
(d)



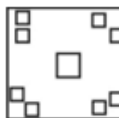
Q17. A paper is folded and cut as shown below. How will it appear when unfolded?



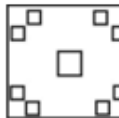
(a)



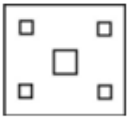
(b)



(c)



(d)



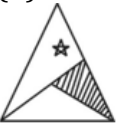
Q18. Select the correct mirror image of the figure when the mirror is placed to the right of the figure.



(a)



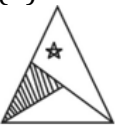
(b)



(c)



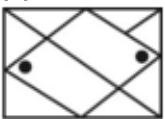
(d)



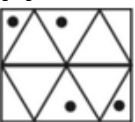
Q19. Select the option in which the given figure is embedded



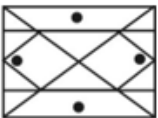
(a)



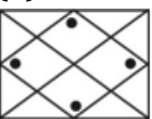
(b)



(c)



(d)

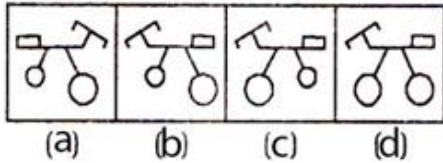


Q20. If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

Question Figure :



Answer Figure :

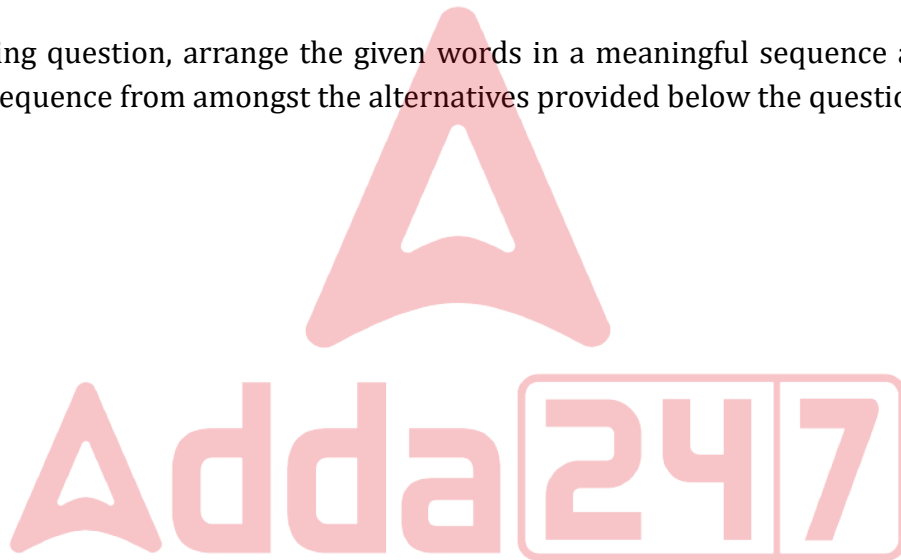


- (a) a
- (b) b
- (c) c
- (d) d

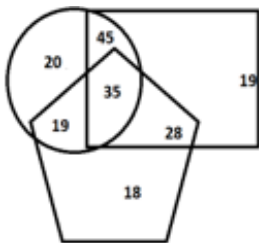
Q21. In the following question, arrange the given words in a meaningful sequence and then choose the most appropriate sequence from amongst the alternatives provided below the question:

1. Puberty
2. Adulthood
3. Childhood
4. Infancy
5. Death
6. Adolescence

- (a) 2,4,6,3,1,5
- (b) 4,3,6,2,1,5
- (c) 5,6,2,3,4,1
- (d) 4,3,1,6,2,5



Q22. In the figure given below, the hexagon represents cricketers, the rectangle represents basketball players and the circle represents golf players. Select the number that represents the person who play cricket and basketball but not golf.



- (a) 28
- (b) 35
- (c) 19
- (d) 45

Q23. M is the father of N who is a husband of P. There are two children of N are O and Q. R and S are couples. R is the aunt of O but she is not the daughter of M. How is R related to N?

- (a) Sister
- (b) Sister- in- law
- (c) Mother
- (d) Aunt

Q24. In this scenario, Aman, Anees, and Ashu are standing at the same place initially. Aman walks 5km towards the north direction, then turns right and walks 6km, and then takes another right turn and walks 5km. Anees walks 10km towards the south direction, then takes a left turn and walks 3km, and then takes another left turn and walks 10km. Ashu walks 6km towards the north direction, takes a left turn, walks 2km, and then takes another left turn and walks 6km. What is the distance between Aman and Ashu and in which direction is Ashu with respect to Aman?

- (a) 8km, West
- (b) 8km, East
- (c) 3km, East
- (d) 5km, West

Q25. Given the following conditions:

- 1) P is greater than Q but less than O.
- 2) M is greater than P.
- 3) S is the least.

Which of the following is the greatest value?

- (a) Q
- (b) M
- (c) O
- (d) cannot be determined

Q26. Who inaugurated the Ayush Holistic Wellness Centre at the premises of the Supreme Court of India?

- (a) President of India
- (b) Chief Justice of India
- (c) Prime Minister of India
- (d) Health Minister of India

Q27. Where did the trilateral exercise 'Dosti-16' take place?

- (a) India
- (b) Sri Lanka
- (c) Maldives
- (d) Bangladesh

Q28. Prime Minister Narendra Modi has inaugurated the which edition of Raisina Dialogue in New Delhi?

- (a) 5th
- (b) 9th
- (c) 7th
- (d) 8th

Q29. Where has India's First Gati Shakti Research Chair been established?

- (a) IIM Ahmedabad
- (b) IIM Bangalore
- (c) IIM Calcutta
- (d) IIM Shillong

Q30. When is National Science Day celebrated annually in India?

- (a) 26th February
- (b) 27th February
- (c) 28th February
- (d) 29th February

Q31. Out of the given four alternatives, select the one that is NOT a constitutional body?

- (a) Finance Commission
- (b) Election Commission
- (c) National Human Rights Commission
- (d) Union Public Service Commission

Q32. Which among the following has been considered as 'instrument of instructions'?

- (a) Fundamental Rights
- (b) Preamble
- (c) Fundamental Duties
- (d) Directive Principles of State Policy

Q33. Which of the following Indian states does NOT have a bicameral legislative?

- (a) Maharashtra
- (b) Tamil Nadu
- (c) Uttar Pradesh
- (d) Karnataka

Q34. What is the tenure of the Chief Election Commissioner of India?

- (a) 4 years or up to the age of 65 years, whichever is earlier.
- (b) 6 years or up to the age of 65 years, whichever is earlier.
- (c) 3 years or up to the age of 65 years, whichever is earlier.
- (d) 5 years or up to the age of 65 years, whichever is earlier.

Q35. The Aligarh Movement was led by:

- (a) Sir Syed Ahmed Khan
- (b) Swami Dayananda Saraswati
- (c) Jyotirao Phule
- (d) Swami Vivekananda

Q36. Who was the Governor-general of India during the Sepoy Mutiny?

- (a) Lord Canning
- (b) Lord Clive
- (c) Lord Dalhousie
- (d) Lord William

Q37. What was the immediate aim of the Treaty of Purander in 1665?

- (a) To gain the goodwill of Shivaji
- (b) To sow seeds of contention between Shivaji and the Sultan of Bijapur
- (c) To deceive Shivaji
- (d) To make Shivaji a puppet of the Mughals

Q38. The last Nanda ruler of Magadha who was overthrown by Chandragupta Maurya with the help of Chanakya was

- (a) Mahapadmananda
- (b) Dhanananda
- (c) Navananda
- (d) None of these

Q39. Which one of the following is the longest river in the world?

- (a) Yangtze-Kiang
- (b) Amazon
- (c) Nile
- (d) Mississipi-Missouri

Q40. Which of the following is a Kharif crop?

- (a) Wheat
- (b) Maize
- (c) Mustard
- (d) Barley

Q41. Which of the following statements is correct regarding road transportation in India?

1. The National Highways Authority of India (NHAI) is responsible for the development, maintenance, and management of national highways.

2. The Golden Quadrilateral is a network of four-lane highways connecting the major cities of Delhi, Mumbai, Chennai, and Kolkata.

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Q42. What is the purpose of the moderator in a nuclear reactor?

- (a) To slow down the neutrons
- (b) To absorb the neutrons
- (c) To increase the temperature of the reactor
- (d) To prevent the reactor from melting down

Q43. In 1817, which law of periodicity showed that the atomic weight of phosphorus is the mean of those of nitrogen and arsenic?

- (a) Moseley's Periodic Law
- (b) Mendeleev's Periodic Law
- (c) Dobereiner's Law of Triads
- (d) Newlands' Octaves Law

Q44. Why are species of moss used as fuel?

- (a) Provide bituminous for energy
- (b) Provide peat that have long been used as fuel
- (c) Make a version of coal
- (d) Help in geothermal energy

Q45. Which of the following microscopic cells are of an amoeboid shape with a distinctive central membrane?

- (a) Nerve cells
- (b) White blood cells
- (c) Guard cells
- (d) Red blood cells

Q46. Oleo gum resin (Asafoetida) can be obtained from:

- (a) dried latex from the stem of ferula
- (b) dried latex from the roots of mango tree
- (c) dried latex from the banana leaves
- (d) dried latex from the tap root of ferula

Q47. Who is the author of the historical novel 'Twilight in Delhi'?

- (a) Ahmed Ali
- (b) Amrita Pritam
- (c) Khushwant Singh
- (d) Krishna Sobti

Q48. Lalgudi Gopala Iyer Jayaraman used to play which of the following instruments?

- (a) Harmonium
- (b) Flute
- (c) Mridangam
- (d) Violin

Q49. Which international organization has its headquarters in Berlin, Germany?

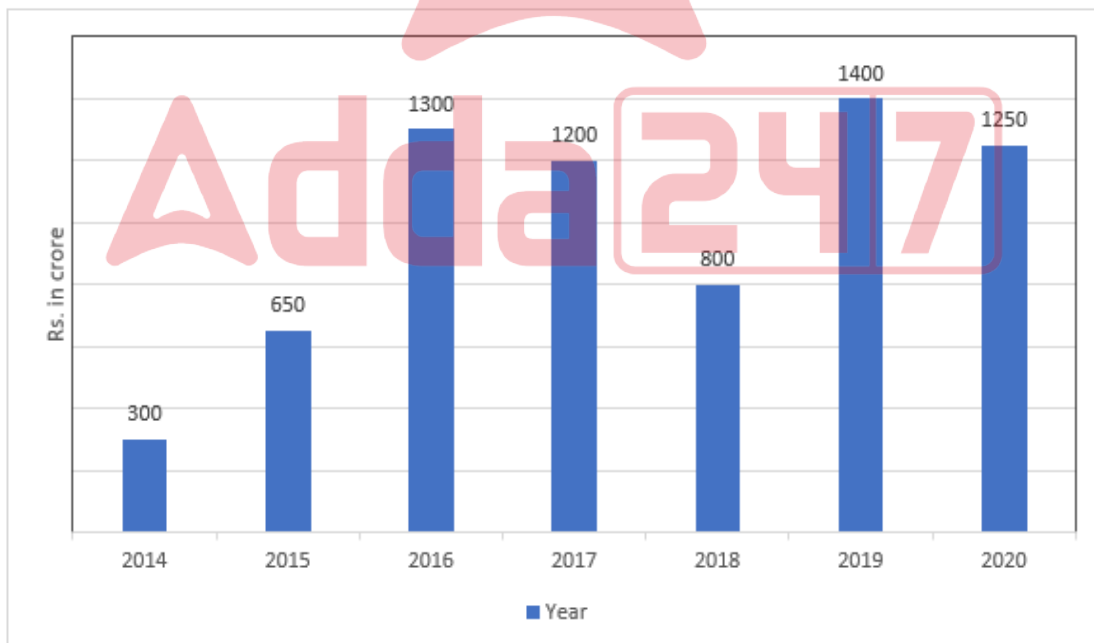
- (a) United Nations Framework Convention on Climate Change
- (b) International Monetary Fund
- (c) World Health Organization
- (d) International Court of Justice

Q50. Shambhu Maharaj was Awarded the Padma Shri for his contribution to which of the following dances in India?
 (a) Kathak
 (b) Bharatanatyam
 (c) Kuchipudi
 (d) Manipuri

Q51. When 3709, 5513 and 9121 are divided by the greatest possible number P, the remainder in each case is Q. What is the difference of P and Q?
 (a) 1704
 (b) 1703
 (c) 1700
 (d) 1702

Q52. If $\cos(7A) = \sin(5A)$, then find the value of $\tan(6A) + \cot(4A) - \operatorname{cosec}(8A)$.
 (a) $\frac{1 + \sqrt{3}}{\sqrt{3}}$
 (b) $\frac{1 - \sqrt{3}}{\sqrt{3}}$
 (c) $\frac{3 + \sqrt{3}}{\sqrt{3}}$
 (d) $\frac{3 - \sqrt{3}}{\sqrt{3}}$

Q53. The following bar chart shows the export of a certain commodity P in crore rupees between 2014 and 2020.



The export of company P in year 2014 and 2016 is what percentage more or less than the export of company P in year 2018 and 2020 ?
 (a) 22.14% less
 (b) 21.95% more
 (c) 22.14% more
 (d) 21.95% less

Q54. The cost price of an article is Rs. 1500. After allowing a discount of 25%, a gain of 30% was made. The marked price of the article is:

- (a) Rs. 2,500
- (b) Rs. 2,700
- (c) Rs. 2,600
- (d) Rs. 2,650

Q55. What is the radius of the circle inscribed within an equilateral triangle with a side length of 12 cm?

- (a) 3.578 cm
- (b) 3.873 cm
- (c) 3.567 cm
- (d) 3.464 cm

Q56. If $\frac{p}{q} = 3$ and $\frac{r}{p} = 6$ then find $\frac{2(p^2 - r^2)}{35q^2} = ?$

- (a) -18
- (b) -16
- (c) -15
- (d) -17

Q57. A cyclist can cover 54 km in some time. If he increased his speed by 9 km/h, then the time taken by him to cover the distance is one-third of the previous time. Find two-third of his initial speed.

- (a) 1 km/hr
- (b) 3 km/hr
- (c) 2 km/hr
- (d) 4 km/hr

Q58. Find the value of $\sqrt[3]{4913}$ of $51 \div 3 \times \sqrt{1444} \div (123 + 2 \text{ of } 123 \div 123 - 123) = ?$

- (a) 5149
- (b) 5916
- (c) 5491
- (d) 5914

Q59. Three friends Rohan, Mohan and Sohan together can do a piece of work in 16 days while Rohan and Mohan together can do it in 48 days. If the efficiency of Mohan is 50% more than that of Rohan, then find the time taken by Mohan and Sohan together to do the same work. (approx.)

- (a) 15 days
- (b) 24 days
- (c) 27 days
- (d) 18 days

Q60. Average of eleven numbers is 68 and the total sum of first five number is 359. If the average of last five numbers is 56, then find 25% of the fifth number.

- (a) 27.25
- (b) 21.20
- (c) 30.45
- (d) 25.80

Q61. In a triangle PQR, PQ= 6 cm, QR= 16 cm and $\angle PQR = 60^\circ$. Find the length of side PR.

- (a) 14 cm
- (b) 10 cm
- (c) 12cm
- (d) 8cm

Q62. ₹5,500 when invested for 8 years at a given rate of simple interest per year, amounted to ₹7,725 on maturity. What was the rate of simple interest that was paid per annum?

- (a) 5.05%
- (b) 5.08%
- (c) 5.03%
- (d) 5.09%

Q63. Find the ratio of mean proportion of 26 and 104 to the third proportion of 26 and 52.

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

Q64. The length, breadth and height of a cuboid decreases by 10%, 5%, 25% respectively. Find the percentage change in volume.

- (a) 35. 775% increase
- (b) 35.875% increase
- (c) 35.875% decrease
- (d) 35. 775% decrease

Q65. If the angle of elevation of the sun decreases from 60° to 30° , then the length of shadow of a pole increases by 45m. Find the length of pole.

- (a) $\frac{45\sqrt{3}}{2}$ m
- (b) $45\sqrt{3}$ m
- (c) $\frac{45}{2}$ m
- (d) 60 m

Q66. A shopkeeper borrowed money from a finance company to purchase machinery and agreed to repay the loan in two equal annual installments of Rs.1573 each. If the loan had an annual interest rate of 10%, compounded yearly, what was the total amount of interest paid by the farmer?

- (a) Rs. 406
- (b) Rs. 416
- (c) Rs. 334
- (d) Rs. 567

Q67. If a number $12x289y$ is divisible by 88, then find the product of the squares of x and y .

- (a) 2916
- (b) 2567
- (c) 3005
- (d) 2816

Q68. Anshu and Suman own a piece of land in the ratio of 4:5. Both of them cultivate rice and wheat on this land, and the entire land is divided into rice and wheat in the ratio of 5:4. If the ratio of rice to wheat grown on Anshu's land is 2:3, what is the ratio of rice to wheat grown on Suman's land?

- (a) 17: 8
- (b) 8: 17
- (c) 25: 26
- (d) 26: 25

Q69. If $x^4 + y^4 + x^2y^2 = 441$ and $x^2 + y^2 + xy = 42$ then find the value of $x^2 + y^2 - xy$

- (a) 10.8
- (b) 11.02
- (c) 13.6
- (d) 10.5

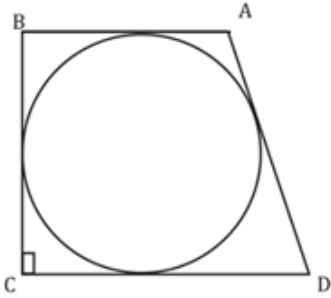
Q70. P, Q, and R are three friends who invested in a company. They invested in the ratio of 5:4:2, they shared the profit in the ratio of 4:3:2. Find the time ratio of their investments.

- (a) 16: 15: 20
- (b) 8: 17: 25
- (c) 25: 26: 24
- (d) 26: 25: 20

Q71. In a ΔABC , AD is a median then which one of the following must be true:

- (a) $AC + 2AB > 3AD$
- (b) $2AB + 2AC > 3AD$
- (c) $AB + AC > 2AD$
- (d) $3(AB + AC) > 4AD$

Q72. In the given figure ABCD is a trapezium and $\angle BCD$ is 90° , a incircle which touches all the sides of the trapezium, Radius of incircle is 2 cm and $AB \parallel CD$. Find the area of the trapezium if the side AB is 3 cm ?



- (a) 42 cm^2
- (b) 24 cm^2
- (c) 18 cm^2
- (d) 36 cm^2

Q73. A circular paper is folded along its diameter, then again it is folded to form a quadrant, then it is cut as shown in the figure and reopened in the original circular shape. Find the ratio of original paper to remaining paper. The radius of small circle is 2 cm and radius of quadrant 10 cm.



- (a) 4: 1
- (b) 25: 16
- (c) 25: 9
- (d) None of these

Directions (74-75): In given table Candidates are applying for the post(I,II,III,IV) in the five companies (A,B,C,D,E). Study the following table carefully and answer the questions given below.

Posts Companies	Post	Post	Post	Post
	I	II	III	IV
A	1060	950	1000	830
B	1050	1005	820	740
C	965	920	915	920
D	820	950	1002	960
E	720	825	760	765

Q74. The total number of candidates applying for various posts in Company E are what per cent of the total number of candidates applying for various posts in Company A? (Rounded off to two digits after decimal)

- (a) 74.85
- (b) 79.95
- (c) 76.77
- (d) 78.15

Q75. The number of candidates applying for Post III in Company E is approximately, what per cent of the total number of candidates applying for the various posts in the same company?

- (a) 25 %
- (b) 30 %
- (c) 15 %
- (d) 20 %

Q76. Identify the word with the incorrect spelling.

- (a) Discreet
- (b) Ephemeral
- (c) Tumultous
- (d) Perseverance

Q77. Choose the word that can substitute the phrase.

A fear of strangers or foreigners.

- (a) Xenophobia
- (b) Claustrophobia
- (c) Agoraphobia
- (d) Acrophobia

Q78. Find the most appropriate ANTONYM for the word provided.

Culmination

- (a) Beginning
- (b) Destructive
- (c) Climax
- (d) Toxic

Q79. Choose the synonym for the given word.

Dilate

- (a) Compress
- (b) Persuasive
- (c) Solution
- (d) Widen

Q80. Identify the segment of the sentence that contains a grammatical error.

Despite the heavy rains, the event went on as planned without any hitch.

- (a) Despite the heavy rains
- (b) the event went on
- (c) as planned without any hitch
- (d) No error

Q81. Convert the following sentence into indirect speech.

"The doctor said, 'It's imperative that you get some rest.'"

- (a) The doctor said it was imperative to get some rest.
- (b) The doctor said that it's imperative that I get some rest.
- (c) The doctor said that it was imperative that I got some rest.
- (d) The doctor said that it was imperative that you got some rest.

Q82. Transform the given sentence into passive voice.

I own a car.

- (a) A car was owned to me.
- (b) A car was own by me.
- (c) A car is own to me.
- (d) A car is owned by me.

Q83. Choose the correct option to fill in the blank.

The detective looked at the clues and _____ that the theft was an inside job.

- (a) deduced
- (b) infer
- (c) deduct
- (d) implied

Q84. Improve the highlighted part of the sentence. If no improvement is required, select 'No improvement'.

She has been living here **since four years**.

- (a) for four years
- (b) since four years ago
- (c) from four years
- (d) No improvement

Q85. Convert the given sentence into indirect speech.

He exclaimed, "What a beautiful painting this is!"

- (a) He exclaimed that it was a very beautiful painting.
- (b) He exclaimed that what a beautiful painting it was.
- (c) He exclaimed how beautiful the painting was.
- (d) He exclaimed that what a beautiful painting this is.

Q86. Identify the most fitting meaning of the idiom given.

Far cry from

- (a) In complete agreement
- (b) a state of confusion or disarray
- (c) To be very different from
- (d) In a fortunate position

Q87. Arrange the sentences to form a coherent paragraph.

A. He asked for my advice on the matter, looking genuinely concerned.

B. My friend seemed perplexed by the unexpected turn of events.

C. Without hesitation, I shared my thoughts, hoping to offer some clarity.

D. It was clear that the decision he was about to make would significantly impact his future.

- (a) A, B, C, D
- (b) B, D, A, C
- (c) D, B, A, C
- (d) B, A, D, C

Q88. Find a one-word substitute for the following description.

The act of making amends for a wrong or injury.

- (a) Retribution
- (b) Compensation
- (c) Redemption
- (d) Reparation

Q89. Determine the appropriate meaning of the given idiom.

Fallout

- (a) To quarrel
- (b) To waste one's resources
- (c) To cause unnecessary trouble
- (d) To avoid responsibilities

Q90. Rewrite the sentence in passive voice.

My father reprimands the children playing in the garden.

- (a) The children playing in the garden are reprimanded by my father.
- (b) The children playing in the garden were reprimanded by my father.
- (c) The children playing in the garden had reprimanded by my father.
- (d) The children playing in the garden has reprimanded by my father.

Directions (91-95): Read the passage carefully and select the most appropriate option to fill in each blank.

The debate around dress codes in the workplace is not new. While some argue that a formal dress code promotes professionalism and creates an environment of equality, others believe it suppresses individuality and self-expression. Many companies enforce a strict dress code believing it (1)_____ a sense of unity and discipline among employees. They argue that when everyone (2)_____ professionally, it not only enhances the company's image but also boosts employees' confidence. However, critics argue that such policies (3)_____ creativity and personal freedom, suggesting that comfort and the ability to express oneself should take precedence over traditional corporate norms. Furthermore, in the era of remote work and digital meetings, the necessity of a formal dress code has been (4)_____ into question. Ultimately, finding a balance that respects both the company's ethos and the individual's right to self-expression may be the (5)_____ approach.

Q91. Select the most appropriate option to fill in blank no. 1.

- (a) cultivates
- (b) prohibits
- (c) neglects
- (d) diminishes

Q92. Select the most appropriate option to fill in blank no. 2.

- (a) dresses
- (b) dressed
- (c) is dressing
- (d) dress

Q93. Select the most appropriate option to fill in blank no. 3.

- (a) stifle
- (b) stimulate
- (c) endorse
- (d) preserve

Q94. Select the most appropriate option to fill in blank no. 4.

- (a) brought
- (b) called
- (c) pushed
- (d) pulled

Q95. Select the most appropriate option to fill in blank no. 5.

- (a) detrimental
- (b) biased
- (c) ideal
- (d) controversial

Directions (96-100): Read the following passage carefully and answer the questions that follow.

Excessive Cleaning Disorder, often termed as obsessive-compulsive cleaning, is a condition where individuals feel a compelling need to clean and organize their environment constantly. This disorder is characterized by the overwhelming urge to maintain a specific order or cleanliness level, leading to significant distress or impairment in social, occupational, or other important areas of functioning. Individuals with this disorder may spend hours each day cleaning, often repeating the same tasks over and over again. They may also experience intense anxiety if they perceive anything in their environment to be out of place or not clean enough. The root of this disorder often lies in an underlying anxiety disorder or obsessive-compulsive disorder (OCD), where cleaning and organizing are used as coping mechanisms to manage underlying stress or anxiety. Treatment typically involves cognitive-behavioral therapy, which helps individuals challenge and change their thoughts and behaviors related to cleaning and anxiety.

Q96. The primary symptom of Excessive Cleaning Disorder is:

- (a) An overwhelming need to be social
- (b) A compelling need to clean and organize
- (c) A desire to avoid cleaning at all costs
- (d) An overwhelming urge to collect items

Q97. According to the passage, what causes significant distress in individuals with Excessive Cleaning Disorder?

- (a) Their inability to maintain social relationships
- (b) The lack of time for other activities due to cleaning
- (c) The compulsion to maintain a certain level of cleanliness
- (d) Their inability to focus on occupational tasks

Q98. The underlying cause of Excessive Cleaning Disorder is often:

- (a) A phobia of germs
- (b) A lack of awareness about hygiene
- (c) A past traumatic event related to uncleanliness
- (d) An underlying anxiety disorder or OCD

Q99. What is the main form of treatment for individuals with this disorder?

- (a) Prescription medication for stress
- (b) Cognitive-behavioral therapy
- (c) Avoiding cleaning activities
- (d) Engaging in more social activities

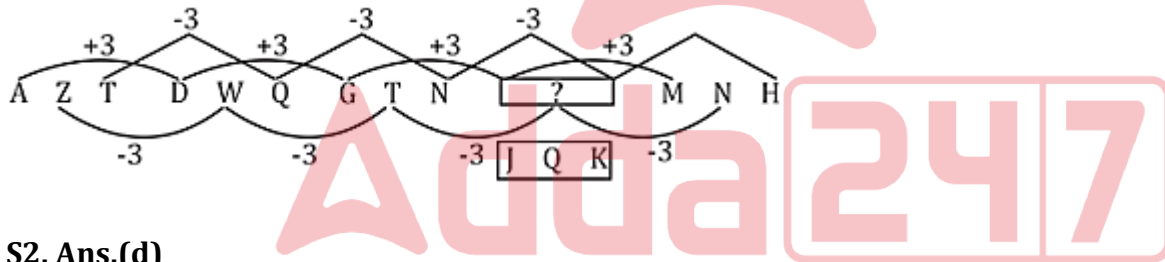
Q100. What does the passage suggest about the impact of Excessive Cleaning Disorder on life?

- (a) It leads to significant distress or impairment in important life areas
- (b) It enhances an individual's organizational skills
- (c) It improves an individual's social life
- (d) It has no significant impact on daily functioning

Solutions

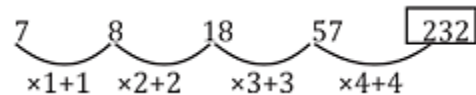
S1. Ans.(b)

Sol.



S2. Ans.(d)

Sol.



S3. Ans.(d)

Sol.

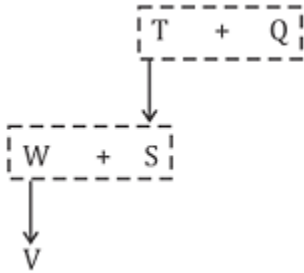
Logic IIIrd no. = (Ist no.)² + (IInd no.)²
 (3, 9, 90) $\Rightarrow 90 = 3^2 + 9^2$, (2, 5, 29) $\Rightarrow 29 = 5^2 + 2^3$
 $\Rightarrow 90 = 9 + 81$, $29 = 25 + 4$
 $\Rightarrow 90 = 90$, $29 = 29$

Now by using options (d)

(5, 8, 89) $\Rightarrow 89 = (8)^2 + (5)^2$
 $\Rightarrow 89 = 64 + 25$
 $\Rightarrow 89 = 89$

S4. Ans.(b)

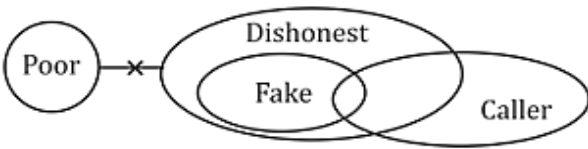
Sol.



Q is grandfather of V.

S5. Ans.(a)

Sol.

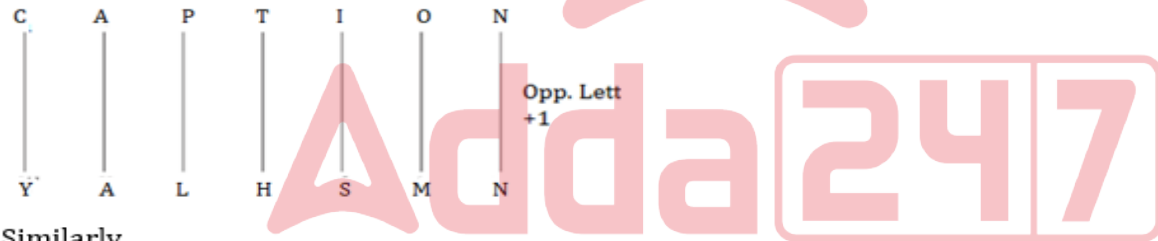


- 1) ✓
- 2) ×
- 3) ×
- 4) ×

Only 1st follow.

S6. Ans.(c)

Sol.



Similarly,



S7. Ans.(c)

Sol. All options except (c) have digit sum 10:10.

S8. Ans.(b)

Sol. In the first and second statements, the common word is 'Coffee' and the common code word is 'see' so, 'see' Means 'coffee'.

In the second and third statements, the common word is 'is' and the common code is 'lee' so, 'lee' means 'is' ∴ 'Sweet' is coded as 'tee'

S9. Ans.(b)

Sol.

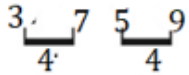
$$37 - \frac{35}{7} - 14 \times 2$$
$$37 - 5 - 28$$
$$= 4$$

S10. Ans.(c)

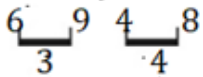
Sol.

1st number = Difference of 1st two

2nd number = last two digits



Similarly,



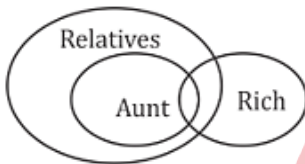
S11. Ans.(d)

Sol. A B / A B C / A B / A B C / A B

So, B B A C B is the answer.

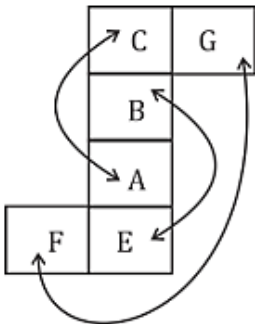
S12. Ans.(d)

Sol.



S13. Ans.(d)

Sol.



Hence

C ↔ A

B ↔ E

F ↔ G

C & E are the opposite face of A and B respectively.

S14. Ans.(d)

Sol. Let A's money = 8x

B's money = 9x

C's money = 11x

A.T.Q

Total money = 3920

$$8x + 9x + 11x = 3920$$

$$28x = 3920$$

$$x = 140$$

$$\text{Difference in A and C's amount} = (11 \times 140 - 8 \times 140) = \text{Rs. } 420$$

S15. Ans.(a)

Sol. Word is UNIQUE

$$U = 3 \quad N = 1 \quad I = 6 \quad Q = 5 \quad U = 4 \quad E = 2$$

Answer is 3, 1, 6, 5, 4, 2

S16. Ans.(b)

Sol. × is moving +1

• is moving +2, +3, +4

S17. Ans.(c)

S18. Ans.(b)

S19. Ans.(c)

S20. Ans.(b)

S21. Ans.(d)

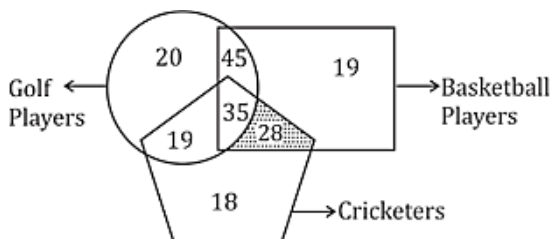
Sol.

(4) (3) (1) (6) (2) (5)

Infancy, Childhood, Puberty, Adolescence, Adulthood, Death

S22. Ans.(a)

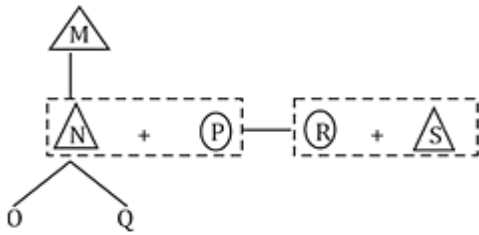
Sol.



Shaded portion is the common portion of basketball players & cricketers. Who do not play golf.

S23. Ans.(b)

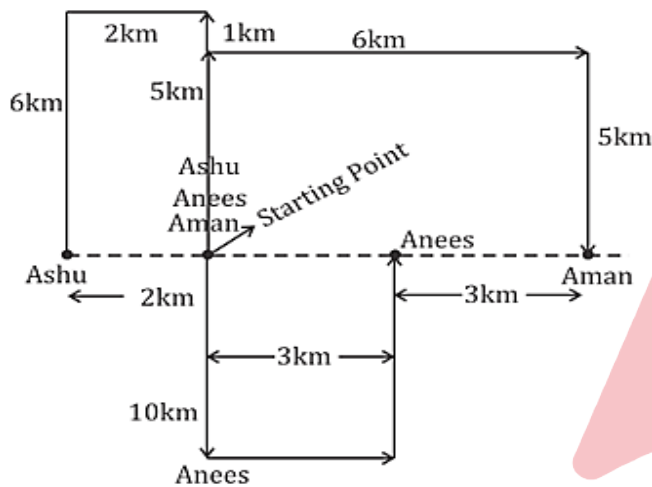
Sol.



From the above diagram, R is the sister of P.
So, R is the sister – in – law of N.

S24. Ans.(a)

Sol.



Distance between Ashu & Aman is 8 km. Ashu is in west direction with respect to Aman.

S25. Ans.(d)

Sol.

- (1) $O > P > Q$
 - (2) $M > P$
 - (3) S is the least.
- $O > M > P > Q > S$
 $M > O > P > Q > S$ } There can be two possible cases.

Either M is tallest or O is the tallest.
So, we can't determine the exact answers.'

S26. Ans.(b)

Sol. The Correct answer is (b)

- The Ayush Holistic Wellness Centre at the premises of the Supreme Court of India was inaugurated by the Chief Justice of India, DY Chandrachud, on February 22, 2024. This center is designed to promote holistic well-being, emphasizing the physical, mental, and emotional health of the Honorable Judges and staff of the Supreme Court.
- This center is established under the Ministry of Ayush and is part of a broader effort to integrate traditional systems of medicine into the health and wellness practices of individuals.

- The center offers a range of services and treatments based on Ayurveda, Yoga, Unani, Siddha, and Homeopathy, which are the traditional systems of medicine in India collectively referred to as AYUSH. These services are tailored to enhance the overall well-being, stress management, and health of the Supreme Court's personnel, acknowledging the demanding nature of their work and the importance of maintaining physical and mental health in such high-stress environments.

S27. Ans.(c)

Sol. The Correct answer is (c)

The trilateral exercise 'Dosti-16' took place in the Maldives. This exercise is part of a series of trilateral maritime exercises involving the coast guards of India, the Maldives, and Sri Lanka, aimed at enhancing cooperation, strengthening friendship, improving mutual operational capability, and developing interoperability among the participating forces. The 16th edition of this exercise, held from February 22nd to 25th, underscores the commitment of these nations to collaborate in ensuring maritime safety and security in the region. Bangladesh also participated as an observer in this edition, highlighting the exercise's growing importance and the interest of other regional players in maritime cooperation

S28. Ans.(b)

Sol. The Correct answer is (b)

- Prime Minister Narendra Modi inaugurated the 9th edition of the Raisina Dialogue in New Delhi. The Raisina Dialogue, held from February 21 to February 23, 2024, is India's flagship conference on geopolitics and geo-strategy, organized by the Ministry of External Affairs in collaboration with the Observer Research Foundation (ORF).
- The theme for the 2024 Raisina Dialogue, "Chaturanga: Conflict, Contest, Cooperate, Create," draws inspiration from the ancient Indian game of Chaturanga, which is considered a precursor to modern chess.
- The Raisina Dialogue has established itself as a significant forum for leaders from government, business, academia, and civil society from around the world to engage in discussions that shape the international agenda

S29. Ans.(d)

Sol. The answer is (d) IIM Shillong.

India's First Gati Shakti Research Chair has been established at the Indian Institute of Management (IIM) Shillong. This initiative is a collaboration between the Ministry of Ports, Shipping and Waterways (MoPSW) and IIM Shillong, aimed at fostering academic research in multimodal logistics, with a particular focus on the North-East region. The establishment of the Gati Shakti Research Chair is intended to spearhead high-quality academic research on multimodal logistics development strategies and practice, thereby contributing significantly to the empowerment-led development of the Northeast

S30. Ans.(c)

Sol. The answer is (c)

National Science Day is celebrated annually in India on the 28th of February. This date commemorates the discovery of the Raman Effect by Indian physicist Sir Chandrasekhara Venkata Raman on February 28, 1928. For his discovery, Sir C.V. Raman was awarded the Nobel Prize in Physics in 1930.

The celebration of National Science Day was first initiated by the National Council for Science and Technology Communication (NCSTC) in 1986. The aim behind this celebration is to spread the message of the importance of science and its application among the people of India. On this day, schools, colleges, universities, and other academic, scientific, technical, medical, and research institutions organize science exhibitions, shows, debates, quiz competitions, lectures, and many other activities to promote science and technology.

S31. Ans.(c)

Sol. From the given options, National Human Rights Commission is not a constitutional body.

- The National Human Rights Commission of India is a statutory public body constituted on 12 October 1993.
- It was given a statutory basis by the Protection of Human Rights Act, 1993.
- It is headquartered in New Delhi.

S32. Ans.(d)

Sol. The Correct answer is (d)

- Articles 36-51 of Part-IV of the Indian Constitution deals with Directive Principles of State Policy (DPSP).
- They act as directives to the government to create any law.
- They act as the 'instrument of instructions'.

S33. Ans.(b)

Sol. The Correct answer is (b)

- Bicameralism is the practice of having a legislature divided into two separate assemblies, chambers, or houses, known as a bicameral legislature.
- There are only 6 states which have two houses (SLC + SLA) those are - Uttar Pradesh, Bihar, Telangana, Andhra Pradesh, Karnataka, and Maharashtra.
- Article 168 states the Bicameralism in the states.
- Article 169 states that State Legislative Council can be created or abolished.

S34. Ans.(b)

Sol. The President appoints the Chief Election Commissioner, who has a tenure of 6 years, or up to the age of 65 years, whichever is earlier.

S35. Ans.(a)

Sol. The Aligarh Movement was led by (a) Sir Syed Ahmed Khan.

Sir Syed Ahmed Khan was a prominent Muslim reformer, philosopher, and educationist during the 19th century in British India. He founded the Aligarh Muslim University (then known as the Muhammadan Anglo-Oriental College) in Aligarh, Uttar Pradesh, which became a significant center for modern education and intellectual development among the Muslim community. Sir Syed Ahmed Khan aimed to uplift the Muslims of India by advocating for modern education, social reforms, and harmony between different communities. His efforts through the Aligarh Movement played a crucial role in promoting education, modernization, and the empowerment of Muslims in British India.

S36. Ans.(a)

Sol. The correct answer is Lord Canning. Lord Charles Canning served as the Governor-General of India during the time of the Sepoy Mutiny, which took place in 1857. He was in office from 1856 to 1862 and played a significant role in dealing with the rebellion.

Lord Canning assumed office as Governor-General in 1856, and his tenure was marked by significant challenges and events, including the outbreak of the Sepoy Mutiny in 1857. The mutiny began as a revolt among Indian sepoys (soldiers) in the British East India Company's army, triggered by various factors such as social, religious, and political grievances.

S37. Ans.(b)

Sol. The immediate aim of the Treaty of Purandar in 1665 was to sow seeds of contention between Shivaji and the Sultan of Bijapur.

The treaty was signed between Shivaji and the Mughal emperor Aurangzeb, with the intention of creating a rift between Shivaji and his erstwhile ally, the Sultan of Bijapur. By signing the treaty, Shivaji was compelled to abandon his alliance with Bijapur and instead align himself with the Mughals, which ultimately led to strained relations between Shivaji and the Sultan of Bijapur. This allowed the Mughals to weaken the unity among Shivaji's forces and exploit the resulting divisions for their own strategic advantage.

S38. Ans.(b)

Sol. The last Nanda ruler of Magadha who was overthrown by Chandragupta Maurya with the help of Chanakya was Dhanananda. Dhanananda was the successor of his father Mahapadma Nanda, who founded the Nanda dynasty and ruled Magadha from 345 BCE to 321 BCE. Chandragupta Maurya, with the guidance of Chanakya, formed an alliance with other rulers and armies and defeated Dhanananda, thus ending the Nanda dynasty's rule over Magadha.

S39. Ans.(c)

Sol. The Nile is a major north-flowing river in northeastern Africa, generally regarded as the longest river in the world.

- It flows through northeastern Africa, starting from Lake Victoria in Uganda and flowing northward through Sudan and Egypt, eventually emptying into the Mediterranean Sea.
- The length of the Nile is approximately 6,650 kilometers (4,130 miles).
- The Yangtze River is the longest river in Asia and the third-longest river in the world.
- The *Amazon River* in South America is the largest river by discharge volume of water in the world

S40. Ans.(b)

Sol. The answer is (b) Maize.

Kharif crops are grown during the monsoon season in India, which runs from June to September. Maize is a Kharif crop, while wheat, mustard, and barley are Rabi crops.

Here is a table of the four crops mentioned, along with their season of cultivation:

Crop	Season of cultivation
Maize	Kharif
Wheat	Rabi
Mustard	Rabi
Barley	Rabi

S41. Ans.(c)

Sol. The correct answer is (c) Both 1 and 2.

1. The National Highways Authority of India (NHAI) is responsible for the development, maintenance, and management of national highways. This statement is correct. The NHAI is a statutory body responsible for the development, maintenance, and management of national highways in India. It works under the Ministry of Road Transport and Highways.
2. The Golden Quadrilateral is a network of four-lane highways connecting the major cities of Delhi, Mumbai, Chennai, and Kolkata. This statement is also correct. The Golden Quadrilateral is a highway network connecting the four major metropolitan cities of India: Delhi, Mumbai, Chennai, and Kolkata. It is a part of the National Highways Development Project and consists of a total of 5,846 kilometers of four-lane highways.

Therefore, both statements 1 and 2 are correct.

S42. Ans.(a)

Sol. The answer is (a). The purpose of the moderator in a nuclear reactor is to slow down the neutrons.

- Neutrons are released when uranium-235 atoms are split apart. These neutrons can then collide with other uranium-235 atoms, causing them to split apart as well. This process is called a chain reaction.
- The moderator in a nuclear reactor is a material that slows down the neutrons without absorbing them. This is important because if the neutrons are absorbed, they will not be able to collide with other uranium-235 atoms and start a chain reaction.
- The most common moderators used in nuclear reactors are water, heavy water, and graphite. Water is the most common moderator because it is inexpensive and easy to find. Heavy water is a more efficient moderator than water, but it is also more expensive. Graphite is a less efficient moderator than water or heavy water, but it is also less expensive.
- So, the answer to the question is (a). The purpose of the moderator in a nuclear reactor is to slow down the neutrons.

S43. Ans.(c)

Sol. In 1817 Johann Dobereiner noticed that the atomic weight of phosphorus fell midway between the weights of nitrogen and arsenic, elements possessing similar chemical properties.

According to Dobereiner triad, when elements are arranged in order of their increasing atomic mass, the atomic mass of the middle element is approximately the arithmetic mean of the other two elements of the triad.

Following are some of the examples of Dobereiner's triad.

Li, Na and K

C, N and O

Ca, Sr and Ba

Cl, Br and I

S44. Ans.(b)

Sol. Mosses are nonvascular plants also known as Bryophytes. Sphagnum is commonly known as peat moss. Peat has multiple uses as it provides nutrients to them and also it is used to derive energy which could be used in vehicle

S45. Ans.(b)

Sol. WBCs have an amoeboid form that helps them squeeze through the capillary wall. Our body's soldiers are white blood cells.

- They play a crucial role in the defence system. White blood cells congregate at the site of infection to kill pathogens.
- Their amoeboid form allows them to squeeze through blood capillaries while their pseudopodia aid in the phagocytosis process, which kills pathogens.

S46. Ans.(d)

Sol. Oleo gum resin (Asafoetida) can be obtained from dried latex from the tap root of ferula. Traditionally it is used for the treatment of various diseases, such as asthma, epilepsy, stomach-ache, flatulence, intestinal parasites, weak digestion and influenza.

S47. Ans.(a)

Sol. Twilight in Delhi is Ahmed Ali's first novel, originally published in English by the Hogarth Press in Britain in 1940.

The novel addresses India's changing social, political, and cultural climate following colonialism.

S48. Ans.(d)

Sol. Lalgudi Gopala Jayaraman was an Indian Carnatic violinist, vocalist and composer. He was awarded Padma Bhushan by the Government of India in 2001. He is commonly grouped with M.S. Gopalakrishnan and T.N. Krishnan as part of the violin-trinity of Carnatic Music.

S49. Ans.(a)

Sol. The answer is (a), the United Nations Framework Convention on Climate Change (UNFCCC). The UNFCCC is an intergovernmental environmental treaty that was adopted in 1992 at the United Nations Conference on Environment and Development (UNCED) in Rio de Janeiro. The UNFCCC's objective is to stabilize greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system. The UNFCCC has its headquarters in Berlin, Germany.

S50. Ans.(a)

Sol. Shambhu Maharaj was Awarded the Padma Shri for his contribution to Kathak Dance.

- Pandit Shambhu Maharaj was a Guru of the Lucknow Gharana (school) of the Indian classical dance form, Kathak.
- Kathak is one of the eight major forms of Indian classical dance. It is the classical dance form of Uttar Pradesh.

S51. Ans.(b)

Sol. HCF of three numbers = Greatest number which gives same remainder

If remainder in each case is same, then

$$D_1 = 5513 - 3709 = 1804$$

$$D_2 = 9121 - 5513 = 3608$$

$$D_3 = 9121 - 3709 = 5412$$

H.C.F of 1804, 3608 and 5412 = (P) = 1804
 When the given 3 numbers are divided by 1804
 Remainder (Q) = 101
 Now,
 $P - Q = 1804 - 101 = 1703$

S52. Ans.(a)

Sol. We know

If $\cos A = \sin B$, Then $A + B = 90^\circ$

We have,

$$\Rightarrow 7A + 5A = 90^\circ \Rightarrow 12A = 90^\circ \Rightarrow A = 7.5^\circ$$

$$\Rightarrow \tan 6A + \cot 4A - \operatorname{cosec} 8A$$

$$\Rightarrow \tan 45^\circ + \cot 30^\circ - \operatorname{cosec} 60^\circ \Rightarrow 1 + \sqrt{3} - \frac{2}{\sqrt{3}}$$

$$= 1 + \sqrt{3} - \frac{2}{\sqrt{3}}$$

$$= \frac{\sqrt{3}+3-2}{\sqrt{3}} \Rightarrow \frac{1+\sqrt{3}}{\sqrt{3}}$$

S53. Ans.(d)

Sol.

Export of company P in year 2014 and 2016 = $300 + 1300 = 1600$

Export of company P in year 2018 and 2020 = $800 + 1250 = 2050$

$$\text{Required Percentage} = \frac{450}{2050} \times 100 = 21.95\% \text{ Less}$$

S54. Ans.(c)

Sol.

$$\frac{CP}{MP} = \frac{100-d}{100+p} \Rightarrow \frac{1500}{MP} = \frac{100-25}{100+30}$$

$$\Rightarrow \frac{1500}{MP} = \frac{75}{130}$$

$$\Rightarrow MP = \text{Rs. } 2600$$

S55. Ans.(d)

Sol.

$$\text{Inradius of circle} = \frac{\text{Side}}{2\sqrt{3}}$$

$$= \frac{12}{2\sqrt{3}}$$

$$= \frac{6\sqrt{3}}{3}$$

$$= 2\sqrt{3}$$

$$= 2 \times 1.732$$

$$= 3.464 \text{ cm}$$

S56. Ans.(a)

Sol.

Since $\frac{p}{q} = 3$ i.e., $p=3q$

And $\frac{r}{p} = 6$ i.e., $r=6p=18q$

$$\text{Now } \frac{2(p^2-r^2)}{35q^2} = \frac{2\{(3q)^2-(18q)^2\}}{35q^2} = \frac{-630q^2}{35q^2} = -18$$

S57. Ans.(b)

Sol.

Let the initial speed be x km/h and initial time be 't' hours.

ATQ

$$\frac{54}{x} = t \dots \dots \dots (i)$$

$$\text{And, } \frac{54}{x+9} = \frac{t}{3} \dots \dots \dots (ii)$$

From (i) and (ii)

$$\frac{3 \times 54}{x+9} = \frac{54}{x}$$

$$x = 9/2 \text{ km/h}$$

Two-third of initial speed = 3 km/hr

S58. Ans.(c)

Sol.

$$\begin{aligned} & \sqrt[3]{4913} \text{ of } 51 \div 3 \times \sqrt{1444} \div (123 + 2 \text{ of } 123 \div 123 - 123) \\ & = 17 \text{ of } 51 \div 3 \times 38 \div (123 + 2 - 123) \\ & = 17 \text{ of } 51 \div 3 \times 38 \div 2 \\ & = 17 \times 51 \div 3 \times 19 \\ & = 5491 \end{aligned}$$

S59. Ans.(d)

Sol. Let the work be 48 units (LCM of 16 and 48)

Efficiency of all three friends = 3 units/day

Efficiency of Rohan + Mohan = 1 unit/day

Efficiency of Sohan = 2 units/day

Efficiency of Mohan = $1 \times \frac{3}{5} = \frac{3}{5}$ unit/day

Required time = $\frac{48}{2 + \frac{3}{5}} = 18$ days (approx.)

S60. Ans.(a)

Sol. Total sum of eleven numbers = $11 \times 68 = 748$

Total sum of last five numbers = $5 \times 56 = 280$

Fifth number = $748 - 359 - 280 = 109$

25% of 109 = 27.25

S61. Ans.(a)

Sol.

Given PQ = 6 cm, QR = 16 cm, $\angle PQR = 60^\circ$

$$\begin{aligned} (PR) &= \sqrt{(PQ)^2 + (QR)^2 - 2(PQ)(QR) \cos Q} \\ &= \sqrt{(6)^2 + (16)^2 - 2(6)(16) \cos 60^\circ} \\ &= \sqrt{36 + 256 - \frac{2 \times 6 \times 16 \times 1}{2}} \\ &= \sqrt{292 - 96} = \sqrt{196} = 14 \text{ cm} \end{aligned}$$

S62. Ans.(a)**Sol.** Principal = Rs. 5500

Interest = Rs. 7725 - Rs. 5500 = Rs. 2225

Time = 8 years

r = ?

Simple Interest = $P \times r\% \times T$

$$2225 = 5500 \times \frac{r}{100} \times 8$$

$$r\% = \frac{2225 \times 100}{8 \times 5500}$$

$$r\% = 5.05\%$$

S63. Ans.(d)**Sol.**

$$\text{Mean Proportion} = \sqrt{104 \times 26} = \sqrt{26 \times 26 \times 4} = 26 \times 2 = 52$$

$$\text{Third Proportion} = \frac{52 \times 52}{26} = 104$$

$$\text{Required Ratio} = 52 : 104 \Rightarrow 1 : 2$$

S64. Ans.(c)**Sol.**

$$l = 10\% = -\frac{1}{10}$$

$$b = 5\% = -\frac{1}{20}$$

$$h = 25\% = -\frac{1}{4}$$

Original cuboid : Final Cuboid

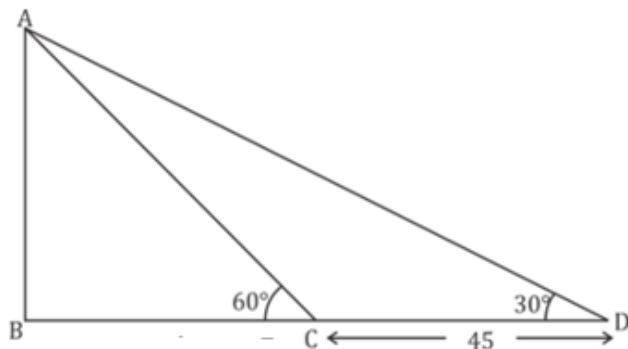
$$l = 10 : 9$$

$$b = 20 : 19$$

$$h = \frac{4}{800} : \frac{3}{513}$$

$$\% \text{ Change in volume} = \frac{800 - 513}{800} \times 100$$

$$= \frac{287}{800} \times 100 = 35.875\% \text{ decrease}$$

S65. Ans.(a)**Sol.**

In $\triangle ABC$

$$\tan 60^\circ = \frac{AB}{BC}$$

$$\sqrt{3} = \frac{AB}{BC} \Rightarrow AB = \sqrt{3} BC$$

In $\triangle ABD$

$$\tan 30^\circ = \frac{AB}{BD}$$

$$\frac{1}{\sqrt{3}} = \frac{\sqrt{3} BC}{BC + CD}$$

$$BC + CD = 3BC$$

$$2BC = CD$$

$$CD = 45 \text{ m (given)}$$

$$BC = \frac{45}{2} \text{ m}$$

$$AB = \frac{45\sqrt{3}}{2} \text{ m}$$

$$\text{Length of pole} = AB = \frac{45\sqrt{3}}{2} \text{ m}$$

S66. Ans.(b)

Sol.

Rate of interest will be 10%

Initially	Finally
11×10	11×11
100	121
<hr/>	
210	242

121 unit = Rs. 1573

1 unit = Rs. 13

Total amount of interest paid = $(242 - 210) \times 13 = \text{Rs. } 416$

S67. Ans.(a)

Sol. $12 \times 289y$

$$88 = 11 \times 8$$

So, no. must be divisible by 11 & 8

Divisibility of 8.

$$\begin{array}{r} 8 \overline{) 89y} \quad (11 \\ \underline{-8} \\ 9 \\ \underline{-8} \\ 1y \end{array}$$

The value of y should be 6.

Divisibility of 11

$$12 \times 2896$$

$(1 + x + 8 + 6) - (2 + 2 + 9) = 11$ or 0 (we will not take 0 otherwise it will give negative result)

$$15 + x - 13 = 11$$

$$x = 9$$

$$\text{So, } x^2 \times y^2 = 9^2 \times 6^2 = 2916$$

S68. Ans.(a)

Sol. Let Total land be 900

Anshu's 400	Suman's 500	Total Rice 500	Total Wheat 400
----------------	----------------	-------------------	--------------------

$\Rightarrow 400 \times \frac{2}{5} = 160$

$\Rightarrow 400 \times \frac{3}{5} = 240$

Remaining Rice = $500 - 160 = 340$
 Remaining Wheat = $400 - 240 = 160$ } Ratio Suman's land

$\frac{\text{Rice}}{\text{Wheat}} = \frac{340}{160} = 34 : 16 = 17 : 8$

S69. Ans.(d)

Sol.

we have

$$x^4 + y^4 + x^2y^2 = 441$$

$$x^2 + y^2 + xy = 42$$

We know,

$$(x^2 + y^2 + xy)(x^2 + y^2 - xy) = (x^4 + y^4 + x^2y^2)$$

$$\Rightarrow 42 \times (x^2 + y^2 - xy) = 441$$

$$\Rightarrow (x^2 + y^2 - xy) = 10.5$$

S70. Ans.(a)

Sol.

We know

$$\text{Profit} = \text{capital} \times \text{Time}$$

$$\text{Time} = \frac{\text{Profit}}{\text{Capital}}$$

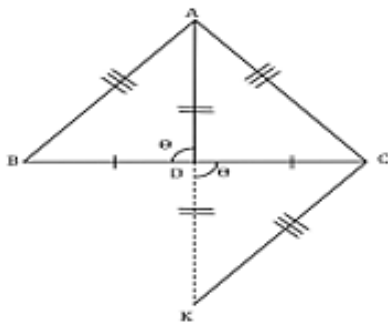
$$P : Q : R$$

$$\Rightarrow \left(\frac{4}{5} : \frac{3}{4} : \frac{2}{2}\right) \times 20$$

$$\Rightarrow 16 : 15 : 20 \Rightarrow \text{Time ratio}$$

S71. Ans.(c)

Sol.



$$\Delta ABD \cong \Delta CDK$$

$$AB = CK \dots \dots \dots (i)$$

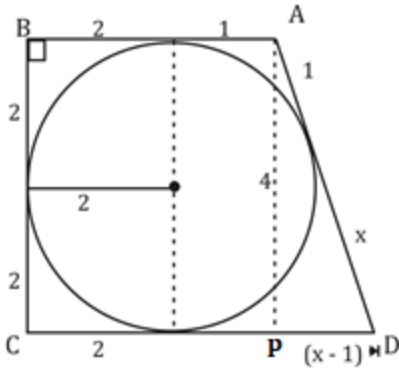
In ΔACK

$$AC + CK > AK$$

$$AC + AB > 2AD \quad \dots \text{ from (i)}$$

S72. Ans.(c)

Sol.



Angle ABC is also 90° because $AB \parallel CD$

In ΔAPD

$$(x + 1)^2 = (x - 1)^2 + 16$$

$$x^2 + 1 + 2x = x^2 + 1 - 2x + 16 \Rightarrow 4x = 16 \Rightarrow x = 4$$

$$\text{Area of Trapezium ABCD} = \frac{1}{2} \times (6 + 3) \times 4 = 18 \text{ cm}^2$$

S73. Ans.(b)

Sol.

area of larger circle = $\pi 100$

Area of smaller circle = $\pi 4$

Total area of shaded region when paper is in original shape = $9 \times (2^2)\pi = 36\pi$

Required Ratio : $100\pi : 100\pi - 36\pi \Rightarrow 25 : 16$

S74. Ans.(b)

Sol.

Total number of candidates applying for various posts Company

$$A \rightarrow 1060 + 950 + 1000 + 830 = 3840$$

Company

$$E \rightarrow 720 + 825 + 760 + 765 = 3070$$

$$\text{Required percentage} = \frac{3070}{3840} \times 100 = 79.95\%$$

S75. Ans.(a)

Sol.

Required percentage

$$\frac{760}{(720 + 825 + 760 + 765)} \times 100$$

$$\frac{760}{3070} \times 100 = 24.75\% = 25\%$$

S76. Ans.(c)

Sol. Option (c) is incorrectly spelt word.

Correct spelling is: "Tumultuous".

Meanings of all options:

- **Discreet:** careful and circumspect in one's speech or actions.
- **Ephemeral:** lasting for a very short time.
- **Tumultuous:** Incorrect spelling of **Tumultuous**, which means loud, excited, and emotional.
- **Perseverance:** persistence in doing something despite difficulty or delay in achieving success.

S77. Ans.(a)

Sol. The correct one-word for the given group of words is (a) Xenophobia.

Meanings of other options:

- **Xenophobia:** Fear or hatred of foreigners, people from different cultures, or strangers.
- **Claustrophobia:** Fear of being in closed or small spaces.
- **Agoraphobia:** Fear of places and situations that might cause panic, helplessness, or embarrassment.
- **Acrophobia:** Fear of heights.

S78. Ans.(a)

Sol. The correct antonym of the given word is (a) Beginning.

Culmination: meaning of the given word is the highest or climactic point of something, especially as attained after a long time.

Synonyms: climax, peak, pinnacle, apex.

Antonyms: **Beginning**, start, commencement, inception.

Meanings of all options:

- **Beginning:** The point in time or space at which something starts.
- **Destructive:** Causing great and irreparable harm or damage.
- **Climax:** The most intense, exciting, or important point of something; a culmination.
- **Toxic:** Poisonous.

S79. Ans.(d)

Sol. The correct synonym of the given word is (d) Widen.

Dilate: meaning of the given word is make or become wider, larger, or more open.

Synonyms: expand, enlarge, broaden, stretch, **widen**.

Antonyms: Compress, contract, narrow, constrict.

Meanings of all options:

- **Compress:** Decrease the size, volume, or extent of something by pressing together.
- **Persuasive:** Good at persuading someone to do or believe something.
- **Solution:** A means of solving a problem or dealing with a difficult situation.
- **Widen:** Make or become wider.

S80. Ans.(d)

Sol. Option (d) "No error" is the correct answer.

The sentence "Despite the heavy rains, the event went on as planned without any hitch." is grammatically correct as written, so the correct option is "No error".

S81. Ans.(c)

Sol. The correct sentence in indirect speech is (c) The doctor said that it was imperative that I got some rest.

When converting direct speech to indirect speech, the verb tense often changes to reflect the shift in time from the speaker's original statement to the reporting of that statement. The direct statement by the doctor uses "it's imperative," which is shifted to "it was imperative" in the indirect speech to maintain the correct tense consistency. Comma inverted comma is replaced by conjunction "That".

S82. Ans.(d)

Sol. The correct option to convert the sentence into passive voice is (d) A car is owned by me.

When converting an active sentence to passive, the object of the active sentence becomes the subject of the passive sentence, and the subject of the active sentence moves to a prepositional phrase introduced by "by". The verb form changes accordingly to fit the passive voice structure.

Conversion rule: **Subject + verb + object -> <- Object + auxiliary verb (is, am, are) + past participle + by + subject.**

S83. Ans.(a)

Sol. The correct option to fill in the blank is (a) deduced.

Deduced means to conclude information from evidence and reasoning rather than from explicit statements, fitting the context where the detective is making a deduction based on clues.

Meanings of other options:

- **Deduced:** Arrive at (a fact or a conclusion) by reasoning; draw as a logical conclusion.
- **Infer:** Deduced or concluded (information) from evidence and reasoning rather than from explicit statements.
- **Deduct:** Subtract or take away (an amount or part) from a total.
- **Implied:** Suggested but not directly expressed.

S84. Ans.(a)

Sol. The correct substitution of the highlighted words is (a) for four years.

The correct preposition to use with a period of time when expressing duration is "for". The sentence should correctly say, "She has been living here for four years."

S85. Ans.(a)

Sol. Option (a) is the correct indirect form of the given sentence.

Rules for converting direct speech to indirect speech-

- When the reporting verb of direct speech is in past tense then all the present tenses are changed to the corresponding past tense in indirect speech.
- Comma inverted comma will be replaced with conjunction "That".
- The **first person** in direct speech **changes as per the subject** of the speech.
- The **second person** of direct speech **changes as per the object** of reporting speech.
- The **third person** of direct speech **doesn't change**.
- In **Exclamatory sentences** that express grief, sorrow, happiness, applaud, **Interjections are removed** and the sentence is **changed to an assertive sentence**.

S86. Ans.(c)

Sol. Option (c) is the correct meaning of the given idiom.

Given Idiom: **Far cry from**

Meaning of idiom: To be very different from something.

Example: The movie was a far cry from the book, lacking both depth and character development.

S87. Ans.(b)

Sol. Option b is the correct order of the given sentences.

The logical sequence starts with the friend being perplexed (B), leading to a significant decision about his future (D), asking for advice (A), and then the narrator sharing thoughts (C), providing a coherent flow of events and thoughts.

S88. Ans.(d)

Sol. The correct one-word for the given group of words is (d) Reparation.

Meanings of other options:

- **Retribution:** Punishment inflicted on someone as vengeance for a wrong or criminal act.
- **Compensation:** Something, typically money, awarded to someone in recognition of loss, suffering, or injury.
- **Redemption:** The action of saving or being saved from sin, error, or evil.
- **Reparation:** The making of amends for a wrong one has done, by paying money to or otherwise helping those who have been wronged.

S89. Ans.(a)

Sol. Option (a) is the correct meaning of the given idiom.

Given Idiom: Fallout

Meaning of idiom: The adverse side effects or results of a situation or action.

Example: The fallout from the scandal was worse than initially anticipated, affecting not just the company but the entire industry.

S90. Ans.(a)

Sol. The children playing in the garden are reprimanded by my father.

This sentence correctly converts the active voice into passive voice, indicating the action (reprimand) performed by the subject (father) on the object (the children) in passive construction.

Conversion rule: **Subject + verb + object -> <- Object + auxiliary verb (is, am, are) + past participle + by + subject.**

S91. Ans.(a)

Sol. The correct option to fill in the blank is (a) cultivates.

Cultivates: to develop or improve by education or training; to foster.

Meanings of other options:

- **Prohibits:** To formally forbid (something) by law, rule, or other authority.
- **Neglects:** To fail to care for properly.
- **Diminishes:** To make or become less.

S92. Ans.(a)

Sol. The correct option to fill in the blank is (a) dresses.

Dress: to put on clothes.

Meanings of other options:

- **Dresses:** Third person singular form of dress.
- **Dressed:** Past tense of dress; clothed or attired.
- **Is dressing:** Present continuous form of dress, indicating the action of putting on clothes.

S93. Ans.(a)

Sol. The correct option to fill in the blank is (a) stifle.

Stifle: To suppress, curb, or withhold.

Meanings of other options:

- **Stimulate:** To encourage or arouse interest or enthusiasm.
- **Endorse:** To declare one's public approval or support of.
- **Preserve:** To maintain (something) in its original or existing state.

S94. Ans.(b)

Sol. The correct option to fill in the blank is (b) called.

Called: Used in the context of bringing something into question or to demand consideration.

Meanings of other options:

- **Brought:** Past tense of bring; to take or go with someone or something to a place.
- **Pushed:** Exert force on (someone or something) in order to move them away from oneself.
- **Pulled:** Exert force on (someone or something) in order to cause movement towards oneself.

S95. Ans.(c)

Sol. The correct option to fill in the blank is (c) ideal.

Ideal: Satisfying one's conception of what is perfect; most suitable.

Meanings of other options:

- **Detrimental:** Tending to cause harm.
- **Biased:** Unfairly prejudiced for or against someone or something.
- **Controversial:** Giving rise or likely to give rise to public disagreement.

S96. Ans.(b)

Sol. The correct option to fill in the blank is (b) A compelling need to clean and organize.

This reflects the primary symptom of Excessive Cleaning Disorder, where the individual feels a strong, irresistible urge to clean and organize their surroundings constantly.

S97. Ans.(c)

Sol. The correct option to fill in the blank is (c) The compulsion to maintain a certain level of cleanliness.

This compulsion causes significant distress or impairment in social, occupational, or other important areas of functioning, as stated in the passage.

S98. Ans.(d)

Sol. The correct option to fill in the blank is (d) An underlying anxiety disorder or OCD.

The passage indicates that the root of Excessive Cleaning Disorder often lies in an underlying anxiety disorder or obsessive-compulsive disorder (OCD), where cleaning and organizing are used as coping mechanisms.

S99. Ans.(b)

Sol. The correct option to fill in the blank is (b) Cognitive-behavioral therapy.

Cognitive-behavioral therapy is mentioned as the primary treatment modality for Excessive Cleaning Disorder, helping individuals challenge and change their thoughts and behaviors related to cleaning and anxiety.

S100. Ans.(a)

Sol. The correct option to fill in the blank is (a) It leads to significant distress or impairment in important life areas.

The passage suggests that Excessive Cleaning Disorder leads to significant distress or impairment in social, occupational, or other important areas of functioning.