SSC CHSL Previous Paper 35 (Held On: 26 Oct 2020 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Directions: Select the most appropriate meaning of the given idiom.

Come hell or high water

(a) Not ready to go on adventures
(b) Tired of all kinds of dangers
(c) In spite of any obstacle
(d) Afraid of the challenges

Q2. Directions: Select the wrongly spelt word.

(a) Migrant
(b) Precedent
(c) Permanant
(d) Adamant

Q3. Directions: Select the word which means the same as the group of words given.

Something that is expressed in a confusing way

(a) Eccentric
(b) Inaudible
(c) Gullible
(d) Incoherent

Q4. Directions: Select the correct indirect form of the given sentence.

Rama said to me, "I need your help for my new assignment."

(a) Rama says to me that she needs my help for her new assignment.
(b) Rama said to me that she is needing my help for her new assignment.
(c) Rama said to me she needs your help for the new assignment.
(d) Rama told me that she needed my help for her new assignment.

Directions

Directions: In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

I remember watching a TV series on bringing up children that showed parents being obsessed _(1)_ their children's performance in school exams. The series highlighted how parents often give _(2)_ higher importance to their children's academic performance than their aptitudes. So many parents push and goad their children to study hard and score _(3)_ possible in their exams. They believe that academic _(4)_ guarantees a successful career and they want their children to be the next 'Albert Einstein' not knowing that Einstein _(5)_ was a rebel and didn't follow any of his parents' plans for him.

Q5. Select the most appropriate option for blank No. 5.

(a) himself
(b) oneself
(c) themselves
(d) itself

Q6. Select the most appropriate option for blank No. 4.

(a) direction
(b) realization
(c) performance
(d) completion

Q7. Select the most appropriate option for blank No. 3.

(a) as higher as
(b) as good as
(c) as high as
(d) as better as

Q8. Select the most appropriate option for blank No. 2.

(a) completely
(b) fully
(c) significantly
(d) largely

Q9. Select the most appropriate option for blank No. 1.

(a) of
(b) in
(c) about
(d) to

Q10. Directions: Select the most appropriate word to fill in the blank.

When I first met my neighbours I took an _____ liking to them.

(a) instant
(b) instantly
(c) instance
(d) instantaneously

Q11. Directions: Select the most appropriate ANTONYM of the given word.

Invincible

(a) Secure
(b) Supreme
(c) Unstoppable
(d) Vulnerable

Q12. Directions: Select the most appropriate ANTONYM of the given word.

Deport

(a) Transport
(b) Permit
(c) Expel
(d) Conduct

Q13. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

When the actress comes to know that she was declared the winner of the best actress award, her joy knew no bounds.

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(a) No improvement
(b) came to know
(c) was come to know
(d) was knowing

Q14. Directions: Select the word which means the same as the group of words given.

Covered with a material or substance in order to stop heat, sound etc. from entering or escaping

(a) Hydrated
(b) Insulated
(c) Assimilated
(d) Calibrated

Q15. Directions: Select the most appropriate word to fill in the blank.

Even though we found ourselves in a _____ situation during our climb, we decided not to give up the expedition.

(a) precarious
(b) pleasant
(c) permissive
(d) plausible

Q16. Directions: In the sentence identify the segment which contains the grammatical error.

The country has the lowest per capita income and needs to create jobs to the youth.

(a) needs to create
(b) the lowest per capita income
(c) the country has
(d) jobs to the youth

Q17. Directions: Given below are four jumbled sentences. Out of the given options select the one that gives their correct order.

A. He went into a part of the city I had never seen before and walked around a few alleys.

B. At one point I distinctly saw him turn around as if to make sure no one was following him; then he darted away.

C. From my conversation with the cook I had learned that Ram Parshad had started to head out of the house at the same time every evening.

D. One day I followed at a distance to know where he went every day.

(a) ABCD
(b) DBAC
(c) CABD
(d) CDAB

Q18. Directions: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

There is a lot of confusion among students due to recent changes in the examination pattern.

(a) allot of
(b) a lots of
(c) No improvement
(d) the lots of

Q19. Directions: Select the correct passive form of the given sentence.

Savita will deliver a speech on the occasion of Ambedkar Jayanti.

(a) On the occasion of Ambedkar Jayanti a speech is being delivered by Savita.
(b) On the occasion of Ambedkar Jayanti a speech was delivered by Savita.
(c) On the occasion of Ambedkar Jayanti a speech will be delivered by Savita.
(d) On the occasion of Ambedkar Jayanti a speech is to be delivered by Savita.

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Q20. Directions: Select the wrongly spelt word.

(a) Advisible
(b) Invisible
(c) Capable
(d) Irritable

Q21. Directions: Select the most appropriate synonym of the given word.

Reproach

(a) Indulge
(b) Berate
(c) Supervise
(d) Train

Q22. Directions: Given below are four jumbled sentences. Out of the given options select the one that gives their correct order.

A. You can also wear a hat to cover your hair and scalp to protect them from toxic particles that could be harmful.

B. Therefore, when you are exposed to bad quality air, try and wear full-sleeved clothes to cover as much of your skin as possible.

C. All the above precautions could save you from serious skin diseases.

D. Air pollution plays a major role in skin and hair-related problems for which you need to take precautions.

(a) CADB
(b) BACD
(c) DBAC
(d) DCAB

Q23. Directions: Select the most appropriate synonym of the given word.

Idleness

(a) Energy
(b) Industry
(c) Cheerfulness
(d) Lethargy

Q24. Directions: In the sentence identify the segment which contains the grammatical error.

I declined the lunch offered by Suresh, not because I do not want to go, but because I had no time.

(a) by Suresh, not because
(b) but because I had no time
(c) I do not want to go
(d) I declined the lunch offered

Q25. Directions: Select the most appropriate meaning of the given idiom.

Out of bounds

(a) Forbidden
(b) Within limits
(c) Tied up
(d) Limitless

GENERAL INTELLIGENCE

Q26. If A is the brother of B, C is the father of D, F is the daughter of E, L is the brother of D's father, B is the sister of L and E is the wife of C, then how is F related to A?

(a) Aunt
(b) Daughter in law
(c) Sister

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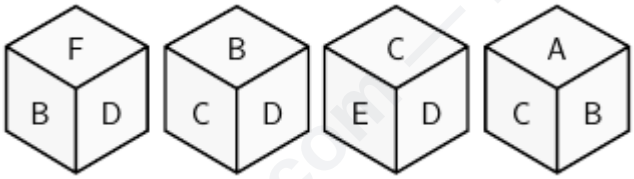
(d) Niece

Q27. Select the letter - number clusters that will replace the blank spaces to complete the series.

A27Z, C5B, E9D, __, __.

(a) G13F, I17H
(b) G13F, J18H
(c) G13F, I17J
(d) G12E, I17H

Q28. Four different positions of the same dice are shown. Select the letter that will be on the face opposite to the one having B.



(a) E
(b) A
(c) C
(d) D

Q29. Four words have been given, out of which three are alike in a some manner and one is different. Select the one that is different.

(a) Angle
(b) Hectare
(c) Meter
(d) Volt

Q30. Select the number - pair in which the two numbers are related in the same way as are the two numbers of the given number - pair

31 : 250

(a) 75 : 614
(b) 81 : 675
(c) 54 : 434
(d) 40 : 320

Q31. In a certain code language, 'STUDENT' is written as 'URWBGLV'. How will 'COMPUTER' be written in the same code language?

(a) AQKRSVCT
(b) EMONWRGP
(c) AQKRQRGP
(d) EMNOWRGU

Q32. Select the figure that will come next in the following figure series.

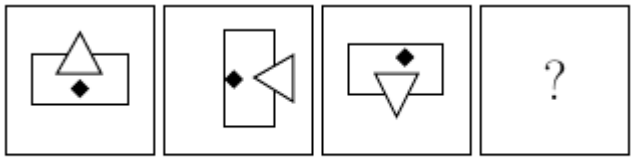
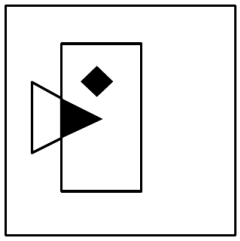


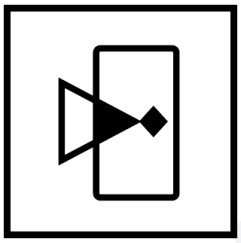
Figure 1 Figure 2 Figure 3 Figure 4

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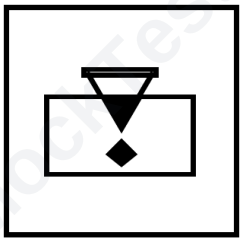
(a)



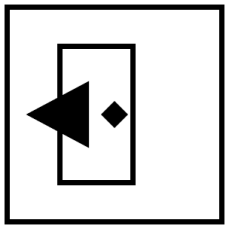
(b)



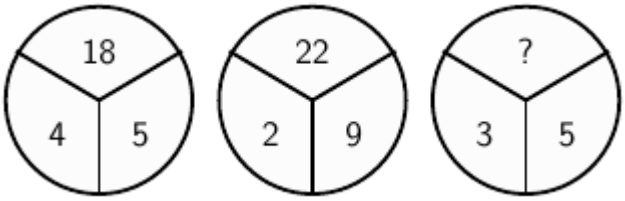
(c)



(d)



Q33. Select the given pattern carefully and select the number that can replace the question mark (?) in it.



(a) 15
(b) 35
(c) 16
(d) 24

Q34. Select the pair that has the same relationship between the words as the relation between the given word-pair.

Fast: slow

(a) leftover: Fresh
(b) Empty: Space
(c) Mend: repair
(d) Restrictions: Prohibition

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Q35. Rahul invests his savings, which is Rs. 25,000 in his bank that pays 7 per cent annual interest. How much will he earn by way of interest in one year?

(a) Rs. 1,500
(b) Rs. 1,800
(c) Rs. 1,750
(d) Rs. 1,675

Q36. Select the combination of letters that, when sequentially from left to right in the gaps of the given letter series, will complete the letter series.

c _ cce _ fcdc _ _ ef _ _ cc _ e _

(a) ecdefcde
(b) eecdeefc
(c) dececdef
(d) fcfeefcd

Q37. Select the option in which the number set shares the same relationship as that shared by the given number set.

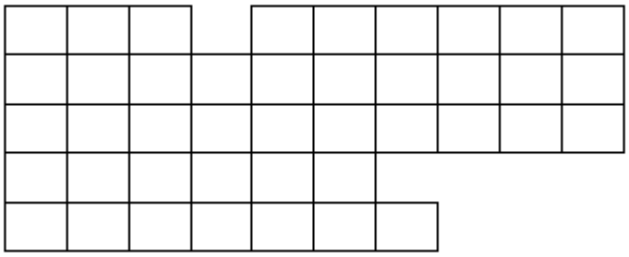
(2, 4, 8)

(a) 5, 21, 80
(b) 6, 17, 54
(c) 4, 16, 64
(d) 5, 25, 625

Q38. Four letter - clusters have been given, out of which three are alike in some manner and one is different. Select the one that is different.

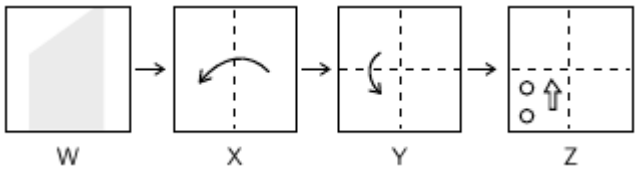
(a) TVX
(b) JLN
(c) NOQ
(d) CEG

Q39. How many squares are there in the following figure?



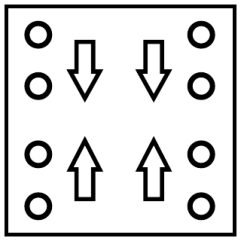
(a) 66
(b) 71
(c) 76
(d) 57

Q40. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?

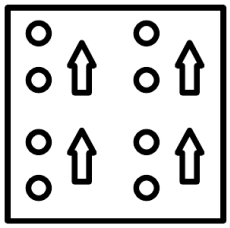


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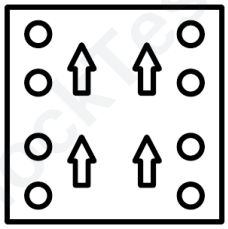
(a)



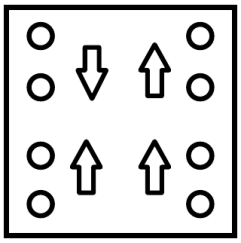
(b)



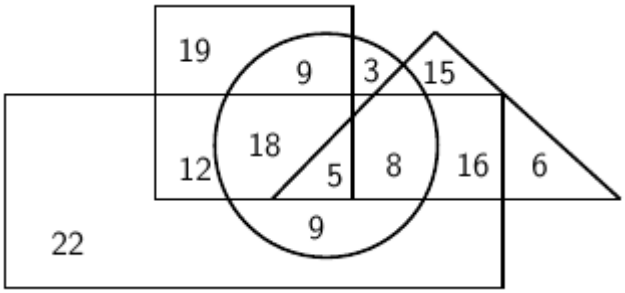
(c)



(d)



Q41. In the given Venn diagram, the 'Triangle' represents 'females', 'Circle' represents 'graduates'; the 'Rectangle' represents 'Employed' and the 'Square' represents 'Youth(under 30 years)'. The numbers given in the diagram represents number of persons of that particular category.



How many female graduates who are under 30 years are employed?

(a) 7
(b) 12
(c) 9
(d) 5

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Q42. Arrange the following words in a logical and meaningful order

1. Bicycle
2. Car
3. Train
4. Bus
5. Motorcycle

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

Q43. In a code language, 'BREEZE' is written as 'ZOAZTX'. How will 'FROTHY' be written in that language?

(a) DOJNAQ
(b) DOLPCS
(c) DOKOBR
(d) DKOPHG

Q44. Four numbers have been given, out of which three are alike in some manner and one is different. Select the one that is different.

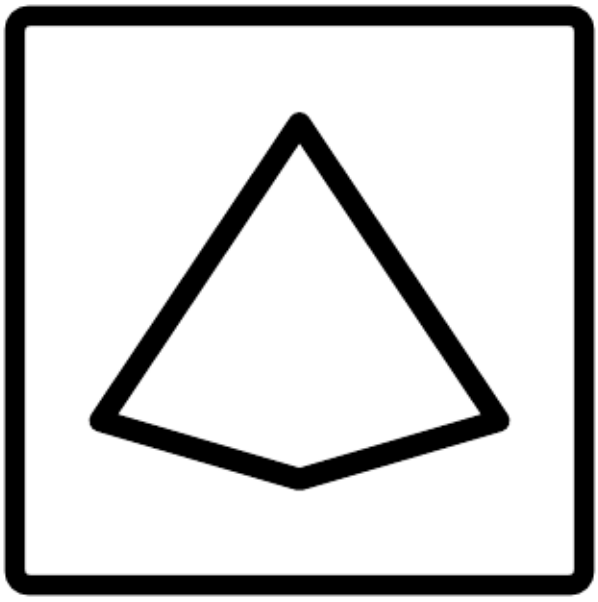
(a) 360
(b) 234
(c) 341
(d) 123

Q45. Select the number that can replace the question mark (?) in the following series.

6, 12, ?, 144, 720, 4320

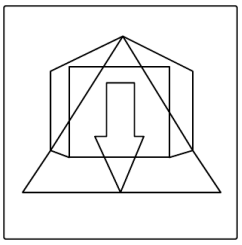
(a) 72
(b) 40
(c) 36
(d) 24

Q46. Select the option in which the given figure is embedded (rotation is NOT allowed).

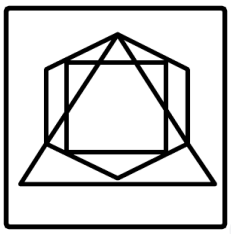


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(a)



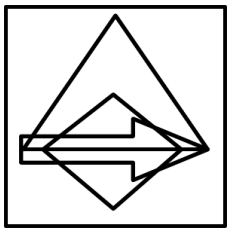
(b)



(c)



(d)



Q47. If '+' means divided by, '-' means 'add', '×' means 'minus' and '÷' means multiplied by, what will be the approximate value of the following expression?

[{(11 × 2) - (2 ÷ 2)} + (3 - 2)] ÷ 2

(a) 4
(b) 5.2
(c) 6.8
(d) 3.5

Q48. Select the mirror image of the given figure.



(a)



(b)



(c)



(d)



Q49. Read the given statements and conclusions carefully. Assuming that the information given in the statement 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.

Statement:

1. All eggs are needles.

2. All grapes are needles.

Conclusion:

I. Some needles are eggs.

II. Some grapes are eggs.

(a) Both conclusions I and II follow
(b) Neither conclusions I nor II follow
(c) either conclusions I nor II follow
(d) Only conclusion I follows

Q50. Select the option that is related to the third letter - cluster in the same way as the second letter - cluster is related to the first letter - cluster.

STAR : PRWU :: TRZP : ?

(a) STWY
(b) QPVS
(c) POUR
(d) RQWT

QUANTITATIVE APTITUDE

Q51. The perimeter of a rectangular field is 32 metres and its sides are in the ratio 5 : 3. Then the sides of the field are:

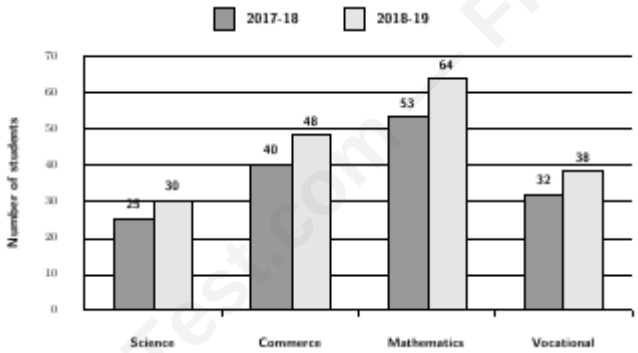
(a) 10 m and 6 m
(b) 9 m and 7 m
(c) 12 m and 10 m

(d) 5 m and 3 m

Q52. If sin (2x - 45°) = cosx and angle x and (2x - 45°) (in degrees) are acute angles, then the value of cot x is:

(a) 0
(b) 1/2
(c) 1
(d) 1/√2

Q53. The given bar graph represents the number of students who appeared in the board examination in session 2017 - 18 and 2018-19. Study the graph and answer the question that follows.



The difference between the average number of students of Science and Mathematics streams in 2017-2018 and that in Commerce and Vocational in 2018-19 is:

(a) 8
(b) 6
(c) 4
(d) 2

Q54. Anu purchased a car and then sold it. If the ratio of the cost price and selling price is 10 : 11, then the profit percentage is:

(a) 15%
(b) 18%
(c) 10%
(d) 20%

Q55. Ravi and Mohan together can complete a task in 3 days. Ravi alone can complete the same task in 7 days. How many days will Mohan alone take to complete the same task?

(a) 51/4 days
(b) 41/5 days
(c) 10 days
(d) 4 days

Q56. The income of Renu is 10% less than the income of Sudha, and the income of Sudha is 10% more than Rs. 3,000. The income of Renu is:

(a) Rs. 3,300
(b) Rs. 3,070
(c) Rs. 2,700
(d) Rs. 2,970

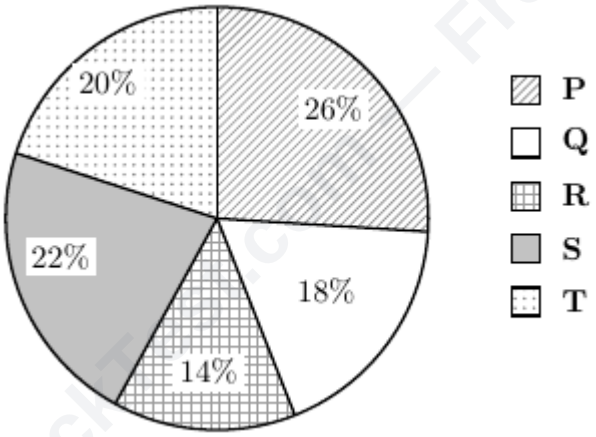
Q57. If A = (1 + 2x)/(1 - 2x) and B = (1-2x)/(1+2x), then the value of (A+B)/(A-B) is:

(a) x + 1/4x
(b) x - 1/4x
(c) 1/4x - x
(d) $x^2 + 1/(4x^2)$

Q58. The difference between the compound interest and the simple interest on a sum of Rs. 8,000 for 2 years at the rate of 5% p.a. is:

(a) Rs. 10
(b) Rs. 30
(c) Rs. 40
(d) Rs. 20

Q59. The following pie - chart shows the percentage - wise distribution of the number of students in five different schools P, Q, R, S, and T. The total number of students in all five schools together is 8400.



Find the average number of students in schools R and S together.

(a) 1510
(b) 1612
(c) 1512
(d) 1620

Q60. The marked price of a book is Rs. 540. After 10% discount on the marked price, the selling price of the book is:

(a) Rs. 386
(b) Rs. 590
(c) Rs. 486
(d) Rs. 530

Q61. In a circle centered at O, AB is a chord and C is any point on AB such that OC is perpendicular to AB. If the radius of the circle is 10 cm and OC = 6 cm, then the length of the chord is:

(a) 8 cm
(b) 12 cm
(c) 4 cm
(d) 16 cm

Q62. $(\sec\theta + \tan\theta)/(\sec\theta - \tan\theta)$ is equal to:

(a) $1/(\text{Sec}\theta - \tan\theta)$
(b) $1/(\text{Sec}\theta + \tan\theta$
(c) $(\text{Sec}\theta + \tan\theta)^2$
(d) $(\text{Sec}\theta - \tan\theta)2$

Q63. Abhi finishes a journey by car in 9 hours. He travels the first half of the journey at a speed 40 km/h and the second half of the journey at a speed of 50 km/h. The total distance covered is:

(a) 350 km
(b) 450 km
(c) 400 km
(d) 300 km

Q64. If the number 62783 xy is divisible by both 8 and 5, then the smallest possible value of x and y is:

(a) x = 2, y = 2
(b) x = 6, y = 0
(c) x = 2, y = 0
(d) x = 2, y = 5

Q65. The value of [(3 + 5 - 4) + (17 - 3 × 4)] + [4 ÷ 2 - 16 ÷ 4 + 3] is:

(a) 16
(b) 10
(c) 12
(d) 14

Q66. If ΔABC is an isosceles triangle with AB = AC and angle ABC is 65°, then angle BCA and angle BAC are, respectively:

(a) 65° and 50°
(b) 75° and 70°
(c) 50° and 65°
(d) 70° and 75°

Q67. If the edge of a cube be 7 cm, then the volume of the cube is:

(a) 321 cm^3
(b) 343 cm3
(c) 433 cm3
(d) 243 cm3

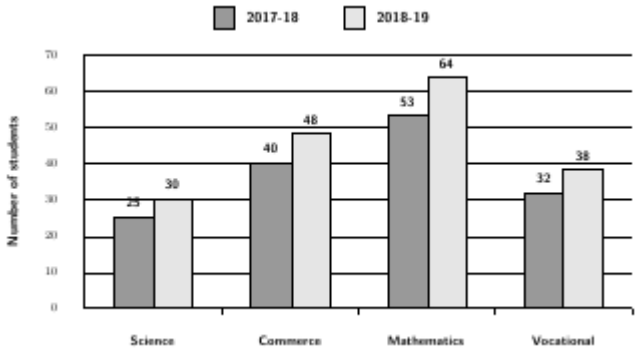
Q68. The average of the ages of Sonu, Hari and Govind is 30 years. If their ages are in the ratio of 4 : 5: 6 respectively, then the difference between the ages of Sonu and Govind is:

(a) 18 years
(b) 21 years
(c) 15 years
(d) 12 years

Q69. If $x^3 + 2x^2 - ax - b$ is exactly divisible by $(x^2 - 1)$, then the values of a and b are:

(a) a = -1 and b = 2
(b) a = 1 and b = - 2
(c) a = 1 and b = 2
(d) a = 2 and b = 2

Q70. The given bar graph represents the number of students who appeared in the board examination in session 2017 - 18 and 2018 - 19. Study the graph and answer the question that follows.



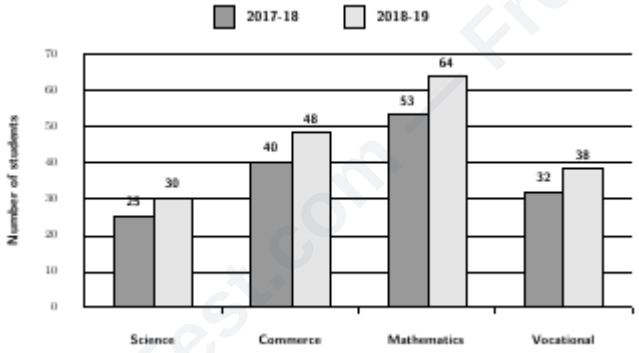
What is the ratio of the total number of students appeared in examination in 2017 - 18 and 2018 - 19?

(a) 5 : 6
(b) 6 : 5
(c) 3 : 4
(d) 4 : 5

Q71. In an equilateral ΔABC, the medians AD, BE and CF intersect to each other at point G. If the area of quadrilateral BDGF is 12√3 cm², then the side of ΔABC is:

(a) 10√3 cm
(b) 10 cm
(c) 12√3 cm
(d) 12 cm

Q72. The given bar graph represents the number of students who appeared in the board examination in session 2017 - 18 and 2018 - 19. Study the graph and answer the question that follows.



What percentage is the total number of students who appeared in 2017 - 18 is less than the total number of students who appeared in 2018 - 19? (correct to one decimal place)?

(a) 15%
(b) 20.5%
(c) 12%
(d) 16.7%

Q73. The value of (sin23° cos67° tan45° +cos23° sin67° cot45°)/(2sin45° cos45°) is:

(a) 0
(b) 2
(c) 1
(d) 1/√2

Q74. In a circle centered at O, a tangent AP is drawn from an external point. If OA = 13 cm and OP = 5cm, then the length of tangent AP is:

(a) 10 cm
(b) 8 cm
(c) 18 cm
(d) 12 cm

Q75. If $x + 1/x = 5$, then the value of $x^2 + 1/(x^2)$ is:

(a) 23
(b) 25
(c) 29
(d) 27

GENERAL AWARENESS

Q76. Who was the chairman of the Economic Programme Committee (EPC) that was formed by All India Congress Committee in 1947?

(a) Purshotamdas Thakurdas
(b) Jawaharlal Nehru
(c) Dadabhai Naoroji
(d) Subhash Chandra Bose

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Q77. Which festival is also known as ‘Mahakumbh of the East’?

(a) Hornbill Festival
(b) Moatsu Mong
(c) Ambubachi Mela
(d) Bihu Festival

Q78. Which of the following Indian actresses was honored with UNICEF's Danny Kaye Humanitarian Award in December 2019?

(a) Deepika Padukone
(b) Priyanka Chopra
(c) Aishwarya Rai Bachchan
(d) Dia Mirza

Q79. On 10th December 2019, which of the following states received the 'World Habitat Award?'

(a) Rajasthan
(b) Tripura
(c) Chhattisgarh
(d) Odisha

Q80. Who won the Women’s 'Leading Cricketer of Year' award for 2018?

(a) Jhulan Goswami
(b) Smriti Mandhana
(c) Harmanpreet Kaur
(d) Mithali Raj

Q81. In which year was the new Indian Rupee symbol officially adopted by the Government of India?

(a) 2012
(b) 2009
(c) 2010
(d) 2011

Q82. Which Indian Forest Service (IFS) officer was selected for the Asia Environmental Enforcement award by the United Nations Environment Programme in October 2019?

(a) Ramesh Pandey
(b) Sanjiv Chaturvedi
(c) Fateh Singh Rathore
(d) Hemendra Singh Panwar

Q83. In which year was the Rigveda manuscript included in the UNESCO's Memory of the World Register?

(a) 2005
(b) 2006
(c) 2004
(d) 2007

Q84. Who defeated Ibrahim Lodi in the first Battle of Panipat?

(a) Sher Shah
(b) Mohammad Ghori
(c) Babur
(d) Akbar

Q85. Which of the following planets is known as a gas giant?

(a) Earth
(b) Mercury
(c) Venus
(d) Jupiter

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Q86. How many function keys are present on a standard PC keyboard?

(a) 10
(b) 9
(c) 12
(d) 15

Q87. Who was appointed as the first-ever Chief of Defense Staff (CDS) by the Union Cabinet in December 2019?

(a) General Manoj Mukund Naravane
(b) General Vijay Kumar Singh
(c) General Bikram Singh
(d) General Bipin Rawat

Q88. Which scientist won the Nobel Prize in 1915 for describing the nature of the structure of chlorophyll in plants and also noted magnesium as the central element in its structure?

(a) James Watson
(b) Werner Heisenberg
(c) Hermann Muller
(d) Richard Willstätter

Q89. Which Nobel laureate wrote the book 'India: A Million Mutinies Now'?

(a) Vidiadhar Surajprasad Naipaul
(b) Olga Tokarczuk
(c) Peter Handke
(d) Patrick Modiano

Q90. Which governor general introduced the policy of Subsidiary Alliance, under which the Indian ruler agreed to keep British forces in his territory?

(a) Lord Wellesley
(b) Lord Cornwallis
(c) Lord William Bentick
(d) Lord Mayo

Q91. Superconductivity was discovered by _____, who was also awarded the Noble Prize for Physics in 1913.

(a) Robert Bunsen
(b) Johannes Diderik van der Waals
(c) Heike Kamerlingh Onnes
(d) Gustav Kirchhoff

Q92. Who was elected as the protem Speaker of the 17th Lok Sabha?

(a) Somnath Chatterjee
(b) Om Birla
(c) Virendra Kumar
(d) Sumitra Mahajan

Q93. Which of the following instruments is used for the measurement of direct beam solar irradiance?

(a) Optometer
(b) Chronometer
(c) Pyrheliometer
(d) Refractometer

Q94. Which of the following disciplines studies human populations mostly with respect to their size, their structure and their development?

(a) Geomorphology
(b) Anthropology
(c) Sociology

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(d) Demography

Q95. What is the pH of rain water during acid rain?

(a) More than 5.6
(b) Between 6 to 8.5
(c) Equal to 5.6
(d) Less than 5.6

Q96. Which of the following pairs is NOT matched correctly?

(a) Alt + E – Edit options in current program
(b) Alt + Shift + D – Insert the current date
(c) Ctrl + K – Cut selected text
(d) Ctrl + A – Select all text

Q97. How many times has Viswanathan Anand won the World Chess Champion title as of January 2020?

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

Q98. The ideals of Liberty, Equality and Fraternity (contained in the Preamble of the Constitution of India) are borrowed from the constitution of which country?

(a) Australia
(b) Canada
(c) Germany
(d) France

Q99. Which of the following is a breed of sheep?

(a) Barbari
(b) Jamunapari
(c) Mecheri
(d) Beetal

Q100. Who became the first gymnast to receive the Rajiv Gandhi Khel Ratna Award?

(a) Anant Ram
(b) Aruna Reddy
(c) Ashish Kumar
(d) Dipa Karmakar

ANSWER KEY

1	c	2	c	3	d	4	d	5	a	6	c	7	c	8	c	9	c	10	a
11	d	12	b	13	b	14	b	15	a	16	d	17	d	18	c	19	c	20	a
21	b	22	c	23	d	24	c	25	a	26	d	27	a	28	a	29	a	30	c
31	b	32	b	33	c	34	a	35	c	36	c	37	c	38	c	39	a	40	a
41	d	42	b	43	c	44	c	45	c	46	b	47	b	48	b	49	d	50	b
51	a	52	c	53	c	54	c	55	a	56	d	57	a	58	d	59	c	60	c
61	d	62	c	63	c	64	c	65	b	66	a	67	b	68	d	69	c	70	a
71	d	72	d	73	c	74	d	75	a	76	b	77	c	78	b	79	d	80	b
81	c	82	a	83	d	84	c	85	d	86	c	87	d	88	d	89	a	90	a
91	c	92	c	93	c	94	d	95	d	96	c	97	c	98	d	99	c	100	d

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SOLUTIONS

Q1. Answer: (c) In spite of any obstacle

The correct answer is 'In spite of any obstacle.'

Key Points

• Given Idiom: Come hell or high water means in spite of any obstacle.

• Example: I've always managed to get into work come hell or high water.

• From the given options, the third option is the most appropriate meaning of the given idiom.

Hence, the correct answer is option 3.

Mistake Points

• We may think from the phrase "Come hell or high water" that it is all about afraid of the challenges, but the correct answer is option 3. So be careful while dealing with such questions.

Additional Information

• The phrase originated in America around the mid-1800s and the earliest print reference is from 1882 in an Iowa newspaper, The Burlington Weekly Hawk-Eye. However, why hell or high water is referenced as obstacles, is not clear.

Q2. Answer: (c) Permanant

The solution is in Hindi. Read it online.

Q3. Answer: (d) Incoherent

The solution is in Hindi. Read it online.

Q4. Answer: (d) Rama told me that she needed my help for her new assignment.

The correct answer is Rama told me that she needed my help for her new assignment.

Key Points

• The given sentence is a direct speech.

• The basic rules for changing or converting direct speech into indirect speech:

• The commas, inverted commas are removed, and 'that' is added.

• The reporting verb "said to" becomes "told".

• The first-person 'I' becomes the third-person 'she', the second-person 'your' becomes the first-person 'my' and the first-person 'my' becomes the third-person 'her'.

• The present simple tense format 'Subject + V1 (need) + Object' will be changed into the past simple tense format 'Subject + V2 (needed) + Object'.

Hence, the correct answer is option 4.

Additional Information

• The following table will enable us to know how tense changes into Indirect speech:-

Direct Speech	Indirect Speech
Present simple (Subject +V1st + Object)	Past simple (Subject +V2 + Object)
Present continuous (Subject +is/am/are+V1 +ing+ Object)	Past Continuous (Subject +was/were+V1 +ing+ Object)
Present perfect (Subject + has/have+V3+Object)	Past perfect (Subject+had+V3+Object)
Past simple (Subject+V2+Object)	Past perfect (Subject+had+V3+Object)
Past Continuous (Subject +was/were+V1 +ing+ Object)	Past perfect continuous (Subject +had been+V1 +ing+ Object)
Future simple (Subject+ will/shall+V1+object)	Present Conditional (Subject+ would+V1+object)
Future Continuous (Subject +will/shall+be+V1 +ing+ Object)	Conditional Continuous (Subject +would+be+V1 +ing+ Object)

Q5. Answer: (a) himself

The correct answer is 'himself'.

Key Points

• The given sentence is talking about Einstein.

• The use of the word 'was' in the sentence indicates a first and third-person singular past of 'be'.

• Therefore, the most appropriate word to be filled in the blank is 'himself'.

• 'Himself' is used for emphasizing that a particular man, boy, or male animal does something without help from anyone else.
• Example: Napolean himself was once a crying baby.
Hence, the correct answer is option 1.
Complete Sentence: Einstein himself was a rebel and didn't follow any of his parents' plans for him.
Additional Information
• Let us explore the other options:
• 'Oneself' is used for emphasizing that you and not anyone else does something.
• 'Themselves' is used for referring back to a group of people already mentioned in the same sentence.
• 'Itself' is used for referring back to something already mentioned in the same sentence.

Q6. Answer: (c) performance

The correct answer is 'performance'.
Key Points
• The given sentence is talking about some kind of condition during the climb.
• The use of the word 'successfully' in the sentence indicates in a way that accomplishes a desired aim or result.
• Therefore, the most appropriate word to be filled in the blank is 'performance'.
• 'Performance' means a task or operation seen in terms of how successfully it is performed.
• Example: The audience was clearly enchanted by her performance.
Hence, the correct answer is option 3.
Complete Sentence: They believe that academic performance guarantees a successful career...
Additional Information
• Let us explore the other options:
• 'Direction' means giving a sense of happy satisfaction or enjoyment.
• 'Realization' means allowing or characterized by great or excessive freedom of behaviour.
• 'Completion' means (of an argument or statement) seeming reasonable or probable.

Q7. Answer: (c) as high as

The correct answer is 'as high as'.
Key Points
• The given sentence is talking about parents pushing and goading their children to study hard and score.
• The use of the word 'score' in the sentence indicates a rating or grade, such as a mark achieved in a test.
• Therefore, the most appropriate word to be filled in the blank is 'as high as'.
• 'As high as' means great, or greater than normal, in quantity, size, or intensity.
• Example: Interest rates are twice as high as those of our competitors.
Hence, the correct answer is option 3.
Complete Sentence: So many parents push and goad their children to study hard and score as high as possible in their exams.
Additional Information
• Let us explore the other options:
• 'As higher as' is used to compare one noun to another noun.
• 'As good as' means having the required qualities; of a high standard.
• 'As better as' means more desirable, satisfactory, or effective.

Q8. Answer: (c) significantly

The correct answer is 'significantly'.
Key Points
• The given sentence is talking about parents giving some kind of importance to their children.
• The use of the word 'importance' in the sentence indicates the state or fact of being of great significance or value.
• Therefore, the most appropriate word to be filled in the blank is 'significantly'.
• 'Significantly' means in a sufficiently great or important way as to be worthy of attention.
• Example: Health problems can be significantly reduced by careful diet.
Hence, the correct answer is option 3.
Complete Sentence: The series highlighted how parents often give significantly higher importance to their children's academic performance than their aptitudes.

Additional Information

• Let us explore the other options:

• 'Completely' means totally; utterly.

• 'Fully' means completely or entirely; to the fullest extent.

• 'Largely' means to a great extent.

Q9. Answer: (c) about

The correct answer is 'about'.

Key Points

• The given sentence is talking about the obsession of parents.

• The use of the phrase 'their' in the sentence indicates belonging to or associated with the people or things previously mentioned or easily identified.

• Therefore, the most appropriate word to be filled in the blank is 'about'.

• 'About' means on the subject of; concerning a particular subject.

• Example: The two women jawed together all day about their children.

Hence, the correct answer is option 3.

Complete Sentence: I remember watching a TV series on bringing up children that showed parents being obsessed about their children’s performance in school exams.

Additional Information

• Let us explore the other options:

• 'Of' expresses the relationship of a part of something to its whole.

• 'In' is used for showing where someone or something is.

• 'To' is used for identifying the person or thing affected by or receiving something.

Q10. Answer: (a) instant

The correct answer is 'instant'.

Key Points

• The given sentence is talking something about the first meeting with the neighbours.

• The use of the word 'liking' in the sentence indicates a feeling of regard or fondness.

• Therefore, the most appropriate word to be filled in the blank is 'instant'.

• 'Instant' means happening or coming immediately.

• Example: The women took an instant dislike to one another.

Hence, the correct answer is option 1.

Complete Sentence: When I first met my neighbours I took an instant liking to them.

Additional Information

• Let us explore the other options:

• 'Instantly' means at once.

• 'Instance' means an example or single occurrence of something.

• 'Instantaneously' means instantly; at once.

Q11. Answer: (d) Vulnerable

The correct answer is 'Vulnerable'.

Key Points

• The word 'Invincible' means too powerful to be defeated or overcome.

• The antonyms of the word 'Invincible' are "vulnerable, vincible, weak".

• From the antonym of the given word, we can say that the word 'Vulnerable' is the opposite in meaning.

• The word 'Vulnerable' means being in a situation where one is likely to meet with harm.

Hence, the correct answer is option 4. Let's see the meaning of other given options:-

WORDS	MEANING
Secure	fixed or fastened so as not to give way, become loose, or be lost
Supreme	most important or powerful
Unstoppable	impossible to stop or prevent

Additional Information

• The synonyms of the word 'Invincible' are "invulnerable, unbeatable, unstoppable".

• Example of 'Invincible' in a sentence:

• They took an invincible lead in the chase for the championship.

Q12. Answer: (b) Permit

The correct answer is 'Permit'.

Key Points

• The word 'Deport' means to force to leave a country.

• The antonyms of the word 'Deport' are "permit, accept, receive".

• From the antonym of the given word, we can say that the word 'Permit' is the opposite in meaning.

• The word 'Permit' means to authorize or allow something.

Hence, the correct answer is option 2. Let's see the meaning of other given options:-

WORDS	MEANING
Transport	take or carry (people or goods) from one place to another
Expel	force someone to leave a place
Conduct	lead or guide someone to or around a particular place

Additional Information

• The synonyms of the word 'Deport' are "displace, expel, transport".

• Example of 'Deport' in a sentence:

• People with invalid papers are deported to another country.

Q13. Answer: (b) came to know

The correct answer is 'came to know'.

Key Points

• In the underlined segment, the use of the present tense form of the verb 'comes' is incorrect.

• The given sentence is in the past tense (indication: was, declared, knew).

• The simple past is a verb tense that is used to talk about things that happened or existed before now.

• Therefore, the past tense form of the verb 'came' should be used in place of the present tense form of the verb 'comes'.

Hence, the correct answer is option 2.

Correct Sentence: When the actress came to know that she was declared the winner of the best actress award, her joy knew no bounds.

Q14. Answer: (b) Insulated

The correct answer is 'Insulated'.

Key Points

• Let us explore the given options:-

• 'Hydrated' means caused to absorb water.

• Example: The bicyclists must be hydrated frequently.

• 'Insulated' means protected by interposing material that prevents the loss of heat or the intrusion of sound.

• Example: Many houses in the north are warm in winter because they are insulated so that the heat is not lost.

• 'Assimilated' means absorb and integrate (people, ideas, or culture) into a wider society or culture.

• Example: Immigrants have been successfully assimilated into the community.

• 'Calibrated' means carefully assessed, set, or adjusted.

• Example: These sensors should be systematically calibrated and checked for accurate signal outputs.

Hence, the correct answer is option 2*.*

Q15. Answer: (a) precarious

The correct answer is 'precarious'.

Key Points

• The given sentence is talking about some kind of condition during the climb.

• The use of the phrase 'give up' in the sentence indicates to cease making an effort; admit defeat.

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• Therefore, the most appropriate word to be filled in the blank is 'precarious'.

• 'Precarious' means not securely held or in position; dangerously likely to fall or collapse.

• Example: Her health remained precarious, despite the treatment.

Hence, the correct answer is option 1.

Complete Sentence: Even though we found ourselves in a precarious situation during our climb, we decided not to give up the expedition.

Additional Information

• Let us explore the other options:

• 'Pleasant' means giving a sense of happy satisfaction or enjoyment.

• 'Permissive' means allowing or characterized by great or excessive freedom of behaviour.

• 'Plausible' means (of an argument or statement) seeming reasonable or probable.

Q16. Answer: (d) jobs to the youth

The correct answer is 'jobs to the youth' i.e. this part of the sentence has an error.

Key Points

• In the given sentence, the use of the preposition 'to' is incorrect.

• The preposition 'to' is used for saying who is told, given, or shown something.

• The preposition 'for' should be used in place of the preposition 'to'.

• The preposition 'for' means relating to or concerning someone or something.

Hence, the correct answer is option 4.

Correct Sentence: The country has the lowest per capita income and needs to create jobs for the youth.

Q17. Answer: (d) CDAB

The correct answer is 'CDAB'.

Key Points

• The sentence 'C' is independent of any other sentences as it is giving general information about "Ram Parshad". Hence, 'C' is the first part.

• The phrase "One day I followed" mentioned in the sentence 'D' is linked with the phrase"head out of the house at the same time every evening" mentioned in the sentence 'C'. Hence, 'D' follows 'C'.

• The phrase "into a part of the city" mentioned in the sentence 'A' is linked with the phrase "where he went every day" mentioned in the sentence 'D'. Hence, 'A' follows 'D'.

• The sentence 'B' is the concluding sentence. Hence, 'B' is the last sentence.

Paragraph after rearranging the sentences: From my conversation with the cook I had learned that Ram Parshad had started to head out of the house at the same time every evening. One day I followed at a distance to know where he went every day. He went into a part of the city I had never seen before and walked around a few alleys. At one point I distinctly saw him turn around as if to make sure no one was following him; then he darted away.

Hint

• Important Rules to Solve the Para Jumbles:

• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.

• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).

• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q18. Answer: (c) No improvement

The correct answer is 'No improvement'.

Key Points

• In the underlined segment, there is no need for any substitution or improvement.

• The use of the quantifier "a lot of" which means ‘a great quantity of’ or a ‘large number of’ is absolutely correct.

• The singular verb 'is' and the singular noun 'confusion' are correctly used with the quantifier "a lot of".

• Therefore, no improvement is required in the underlined segment.

Hence, the correct answer is option 3.

Additional Information

• The expressions "a lot of" and "lots of" are rather informal. In a more formal style, we prefer expressions like "a great deal of", "a large number of", 'much' or 'many'.

Q19. Answer: (c) On the occasion of Ambedkar Jayanti a speech will be delivered by Savita.

The correct answer is 'On the occasion of Ambedkar Jayanti a speech will be delivered by Savita'.

• In Active Voice, a sentence emphasizes the subject, performing an action.

• In Passive Voice, a sentence emphasizes the action or the object of the sentence.

• The given sentence is in the active voice and 'Savita' is the subject and "on the occasion of Ambedkar Jayanti" is the object.

• When we convert this sentence into a passive voice, the subject 'Savita' of the active voice becomes the object, the object "on the occasion of Ambedkar Jayanti"becomes the subject.

• The passive format "'will + be + V3 (delivered)" should be used.

• This is the active and passive voice rule for the future simple tense.

Hence, the correct answer is option 3*.*

Verbs of passive format have a different set of tenses (*V3 - Past participle or Third form of the Verb) as given below in the table:

TENSE	ACTIVE	PASSIVE	PASSIVE CONVERSION
Present Simple	He plays football	am/is/are + V3	Football is played by him
Present Continuous	He is playing football	am/is/are + being +V3	Football is being played by him
Present Perfect	He has played football	Has/have + been+ V3	Football has been played by him
Present Perfect Continuous	He has been playing football	Not used and unusual.	Not used and unusual
Past Simple	He played football	Was/were + V3	Football was played by him
Past Continuous	He was playing football	Was/were + being + V3	Football was being played by him
Past Perfect	He had played football	Had + been + V3	Football had been played by him
Past Perfect Continuous	He had been playing football	Not used and unusual	Not used and unusual
Future Simple	He will play football	Will + be + V3	Football will be played by him
Future Continuous	He will be playing football	Not used and unusual	Not used and unusual
Future Perfect	He will have played football	Will have been + V3	Football will have been played by him
Future Perfect Continuous	He will have been playing football	Not used and unusual	Not used and unusual

Q20. Answer: (a) Advisible

The correct answer is 'Advisible'.

Key Points

• Let us explore the options:-

• 'Advisible': There is no such word in English or we can say that there is some spelling mistake in this word.

• The correct spelling is 'Advisable' and it means (of a course of action) to be recommended; sensible.

• 'Invisible' means unable to be seen.

• 'Capable' means having the ability, fitness, or quality necessary to do or achieve a specified thing.

• 'Irritable' means having or showing a tendency to be easily annoyed.

Hence, the correct answer is option 1.

Additional Information

• Example of 'Advisable' in a sentence:

• It is advisable to insure your life against accidents.

Q21. Answer: (b) Berate

The correct answer is 'Berate'.

Key Points

• The word 'Reproach' means to criticize someone severely or angrily especially for personal failings.

• The synonyms of the word 'Reproach' are "berate, blame, castigate".

• From the synonym of the given word, we can say that the word 'Berate' has the same meaning.

• The word 'Berate' means to scold or criticize someone angrily.

Hence, the correct answer is option 2. Let's see the meaning of other given options:-

WORDS	MEANING
Indulge	allow someone to enjoy something desired
Supervise	observe and direct the execution of a task or activity
Train	be taught through practice and instruction over a period of time

Additional Information

• The antonyms of the word 'Reproach' are "laud, praise".

• Example of 'Reproach' in a sentence:

• She got a sharp reproach from her boss.

Q22. Answer: (c) DBAC

The correct answer is 'DBAC'.

Key Points

• The sentence 'D' is independent of any other sentences as it is giving general information about "Air pollution". Hence, 'D' is the first part.

• The phrase "wear full-sleeved clothes" mentioned in the sentence 'B' is linked with the word "precautions" mentioned in the sentence 'D'. Hence, 'B' follows 'D'.

• The phrase "wear a hat to cover your hair and scalp" mentioned in the sentence 'A' is linked with the phrase "exposed to bad quality air" mentioned in the sentence 'B'. Hence, 'A' follows 'B'.

• The sentence 'C' is the concluding sentence. Hence, 'C' is the last sentence.

Paragraph after rearranging the sentences: Air pollution plays a major role in skin and hair-related problems for which you need to take precautions. Therefore, when you are exposed to bad quality air, try and wear full-sleeved clothes to cover as much of your skin as possible. You can also wear a hat to cover your hair and scalp to protect them from toxic particles that could be harmful. All the above precautions could save you from serious skin diseases.

Hint

• Important Rules to Solve the Para Jumbles:

• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.

• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).

• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q23. Answer: (d) Lethargy

The correct answer is 'Lethargy'.

Key Points

• The word 'Idleness' means an inclination not to do work or engage in activities.

• The synonyms of the word 'Idleness' are "lethargy, apathy, sluggishness".

• From the synonym of the given word, we can say that the word 'Lethargy' has the same meaning.

• The word 'Lethargy' means a lack of energy and enthusiasm.

Hence, the correct answer is option 4. Let's see the meaning of other given options:-

WORDS	MEANING
Energy	the strength and vitality required for sustained physical or mental activity
Industry	hard work
Cheerfulness	the quality or state of being noticeably happy and optimistic

Additional Information

• The antonyms of the word 'Idleness' are "energy, exuberance, liveliness".

• Example of 'Idleness' in a sentence:

• His mother became fat because of idleness.

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Q24. Answer: (c) I do not want to go

The correct answer is 'I do not want to go' i.e. this part of the sentence has an error.

Key Points

• In the given sentence, the use of the base form of the verb 'do' is incorrect.

• The given sentence is in the past tense (indication: declined, offered, had).

• The simple past is a verb tense that is used to talk about things that happened or existed before now.

• Therefore, the past tense form of the verb 'did' should be used in place of the base form of the verb 'do'.

Hence, the correct answer is option 3.

Correct Sentence: I declined the lunch offered by Suresh, not because I did not want to go, but because I had no time.

Q25. Answer: (a) Forbidden

The correct answer is 'Forbidden.'

Key Points

• Given Idiom: Out of bounds means forbidden; not allowed.

• Example: The path by the railway line is officially out of bounds to both cyclists and walkers.

• From the given options, the first option is the most appropriate meaning of the given idiom.

Hence, the correct answer is option 1.

Mistake Points

• We may think from the phrase "Out of bounds" that it means limitless, but the correct answer is option 1. So be careful while dealing with such questions.

Additional Information

• This expression alludes to the boundaries of the playing area in numerous sports and to the rules applying to them. Its figurative use dates from the 1940s.

Q26. Answer: (d) Niece

The Family tree chart for the given data is:

Clearly, F is the niece of A.

Q27. Answer: (a) G13F, I17H

The given series: A27Z, C5B, E9D, __, __.

Thus, the first letter of the next two terms will be G and I in this particular order.

The number in the middle is the sum of the position values of the two letters in the term as per the English alphabetical series.

Hence, the next two terms are G13F and I17H.

Q28. Answer: (a) E

The given position of the dice:

From the first and the fourth positions of the dice, it is clear that F, D, A, and C are adjacent to B.

Hence, E is opposite B.

Q29. Answer: (a) Angle

Hectare, Meter, and Volt all are units to measure Area, Length, and electric potential respectively.

Quantity	Unit
Area	Hectare
Length	Meter
Electric Potential	Volt

While;

Angle is not a unit it is a geometric figure.

Hence, Angle is the odd one out.

Q30. Answer: (c) 54 : 434

In 31 : 250

31 × 8 + 2 = 248 + 2 = 250

Similarly,

54 × 8 + 2 = 432 + 2 = 434

Hence, 54 : 434 has the same relation as 31 : 250.

Q31. Answer: (b) EMONWRGP

To form the code, the letters in the word are replaced by their second successor and second predecessor in the alternate order as per the English alphabetical series as shown below.

STUDENT → URWBGLV

SImilarly,

Hence, the code for the word COMPUTER is EMONWRGP.

Q32. Answer: (b) [figure]

The given figure series:

In figure 1, there is a horizontal rectangle. In the next figure, there is a vertical rectangle and again in the next figure, there is a horizontal rectangle. Thus, in the next figure, there will be a vertical rectangle.

Also, the triangle is rotated by 90 degrees in the anti-clockwise direction in each figure. Thus, in the fourth figure, the black part of the triangle will be facing the east direction.

Also, the rhombus is at the tip and the base of the triangle in alternate order. In the third figure, the rhombus was at the base of the triangle. Thus, in the fourth figure, the rhombus will be at the tip of the triangle.

Hence, the second option is the answer figure.

Q33. Answer: (c) 16

The given series:

(5 + 4) × 2 = 9 × 2 = 18

(9 + 2) × 2 = 11 × 2 = 22

Similarly,

(5 + 3) × 2 = 8 × 2 = 16

Hence, 16 is the missing term.

Q34. Answer: (a) leftover: Fresh

Fast is the opposite of slow, similarly, leftover is the opposite of fresh.

Hence, 'leftover : fresh' is similar to 'fast : slow'.

Q35. Answer: (c) Rs. 1,750

Principal = Rs.25,000

Interest rate = 7%

Time period = 1 year

Interest for one year = 25000 × 7 ÷ 100 = Rs.1750

Hence, the interest for one year is Rs.1750.

Q36. Answer: (c) dececdef

c _ cce _ fcdc _ _ ef _ _ cc _ e _

1) ecdefcde

c e c c e c f / c d c d e e f / f c c c d e e

2) eecdeefc

c e c c e e f / c d c c d e f / e e c c f e c

3) dececdef

c d c c e e f / c d c c e e f / c d c c e e f

4) fcfeefcd

c f c c e c f / c d c f e e f / e f c c c e d

Hence, dececdef is the correct answer.

Q37. Answer: (c) 4, 16, 64

4 ÷ 2 = 2 and 8 ÷ 4 = 2

Similarly,

16 ÷ 4 = 4 and 64 ÷ 16 = 4

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Hence, (4, 16, 64) is similar to (2, 4, 8).

Alternate approach: The second and the third number is the square and cube of the first number.

Q38. Answer: (c) NOQ

Except for NOQ, in all other options, each letter is the second successor of the previous letter as per the English alphabetical series as shown below.

Hence, NOQ is different from the other three.

Q39. Answer: (a) 66

The number of squares in the given figure is shown below:

We count squares separately.

Number of square in this diagram is (5 × 3) + (4 × 2) + (3 × 1) = 15 + 8 + 3 = 26.

Number of square in this diagram is (3 × 6) + (2 × 5) + (1 × 4) = 18 + 10 + 4 = 32.

Therefore total squares from this two diagrams = 32 + 26 = 58

The remaining Squares are :

From

number of squares are (1 × 1) + (2 × 2) = 1 + 4 = 5

Therefore total squares from this diagrams = 60 + 5 = 65

Remaining square is

Hence, there are 66 squares in the figure.

Q40. Answer: (a) [figure]

The given figure:

When we will unfold the paper for the first time, we will get the shapes on the upper half that is vertically rotated by 180° as shown below

Again, when we will unfold the paper for the second time we will get similar shapes on the right-hand side of the paper as the shapes are horizontally symmetrical. The paper will look like the figure below:

Hence, the "first figure" is the answer figure.

Q41. Answer: (d) 5

The given Venn Diagram:

Triangle → Female

Circle → Graduates

Rectangle → Employed

Square → Youth under 30

The number that is common in the circle, square, rectangle, and triangle represents the female graduates who are under 30 years and are employed.

Clearly, '5' lies in the circle, triangle, rectangle, and square.

Hence, there are 5 female graduates under 30 who are employed.

Q42. Answer: (b) 1, 5, 2, 4, 3

We use these modes of transport to travel from one place to another. In terms of increasing order of weight/price/the distance one can travel using them:

1. Bicycle

5. Motorcycle

2. Car

4. Bus

3. Train

Hence, the logical order is 15243.

Q43. Answer: (c) DOKOBR

To form the code, the firs letter is replaced by its second predecessor, the second letter is replaced by its third predecessor, the third letter is replaced by its fourth predecessor and so on as per the English alphabetical series.

BREEZE → ZOAZTX

Similarly,

Hence, DOKOBR is the code for the word FROTHY.

Q44. Answer: (c) 341

Except for 340, all other numbers are divisible by 3.

To check if a number is divisible by 3 or not, see if the sum of the digits of the number is divisible by 3 or not.

3 + 6 + 0 = 9 (divisible by 3)

2 + 3 + 4 = 9 (divisible by 3)

3 + 4 + 1 = 8 (not divisible by 3)

1 + 2 + 3 = 6 (divisible by 3)

Hence, 341 is different from the other three.

Q45. Answer: (c) 36

The given series: 6, 12, ?, 144, 720, 4320

6 × 2 = 12

12 × 3 = 36

36 × 4 = 144

144 × 5 = 720

720 × 6 = 4320

Hence, 36 is the missing term in the series.

Q46. Answer: (b) [figure]

The given shape:

Clearly, the given shape is hidden in the second figure.

Q47. Answer: (b) 5.2

According to the question:

[{(11 × 2) - (2 ÷ 2)} + (3 - 2)] ÷ 2

[{(11 - 2) + (2 × 2)} ÷ (3 + 2)] × 2

=> [{9 + 4} ÷ 5] × 2

=> [13 ÷ 5] × 2

=> 2.6 × 2 = 5.2

Hence, 5.2 is the outcome of the given equation.

Q48. Answer: (b) [figure]

The given word:

If we place a mirror to the right of the word then all the letter of the word will be rotated by 180 degrees on its vertical axis as shown below.

Hence, the second figure is the correct option.

Q49. Answer: (d) Only conclusion I follows

The Venn Diagram for the given data:

Conclusions:

I. Some needles are eggs → True (As all eggs are needles, some needles are definitely eggs)

II. Some grapes are eggs → False (As there is no relation between grapes and eggs)

Hence, only conclusion I follows.

Q50. Answer: (b) QPVS

In STAR and PRWU,

Similarly,

Hence, QPVS is related to TRZP the same way PRWU is related to STAR.

Q51. Answer: (a) 10 m and 6 m

Given

The perimeter of rectangular field = 32 m

Formula Used

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Perimeter of rectangle = 2(length + breadth)
Calculation
=> let the length and breadth be 5a and 3a respectively
=> 32 = 2(5a + 3a)
=> 16 = 8a
=> a = 2
=> so, length = 5 × 2 = 10 m, breadth = 3 × 2 = 6 m
Therefore the length and breadth of rectangle is 10 m and 6 m respectively

Q52. Answer: (c) 1

Given
sin (2x - 45) = cosx
Formula Used
sinθ = cos(90 - θ)°
Calculation
We know that, sin 45 = cos 45
=> co[90°- (2x - 45)°] = cosx
=> 90 - 2x + 45 = x
=> x = 135/3 = 45°
=> cotx = cot 45° = 1
Therefore the value of cotx is 1

Q53. Answer: (c) 4

Given
From the graph,
No of science student in 2017 - 2018 = 25
No of Mathematics student in 2017 - 2018 = 53
No of commerce student in 2018 - 2019 = 48
No of Vocational student in 2018 - 2019 = 38
Formula Used
Average = sum of observation/No. of observation
Calculation
=> Sum of no. of science and Mathematics student in 2017 - 2018 = 25 + 53 = 78
=> Sum of no. of commerce and vocational student in 2018 - 2019 = 48 + 38 = 86
=> Difference = 86 - 78 = 8
=> Average = 8/2 = 4
Therefore the difference between the average no. of student is 4

Q54. Answer: (c) 10%

Given
Ratio of cost price and selling price = 10 : 11
Formula Used
Profit% = (profit/cp) × 100
Profit = sp - cp
Calculation
=> let the cost price and selling price be 10x ad 11x
=> Profit = 11x - 10x = x
=> Profit % = (x/10x) × 100 = 10%
Therefore the profit percentage is 10%

Q55. Answer: (a) 51/4 days

Given
Ravi and Mohan can complete work = 3 days

Ravi alone complete the work = 7 days
Formula Used
Work = time × efficiency
Calculation
=> LCM of (3, 7) = 21
=> Let the total work be 21
=> Efficiency of Ravi and Mohan together = 21/3 = 7
=> Efficiency of Ravi alone = 21/7 = 3
=> Efficiency of Mohan = 7 - 3 = 4
=> Mohan takes time to complete the work alone = 21/4 = 51/4 days

Q56. Answer: (d) Rs. 2,970

Given:
The income of renu = 90% of sudha
Calculation:
=> Income of Sudha = 3000 + 10% of 3000 = Rs 3300
=> Income of Renu = 90% of 3300 = (90/100) × 3300
=> 2970
Therefore the income of Renu is Rs 2970

Q57. Answer: (a) x + 1/4x

Given
A = (1 + 2x)/(1 - 2x)
B = (1 - 2x)/(1 + 2x)
Calculation
=> A = 1/B
=> (A + B)/(A - B) = [{(1 + B2)/B}/{(1 - B2)/B}]
=> (A + B)/(A - B) = (1+ B2)/(1 - B)
=> (A + B)/(A - B) = (8x2 + 2)/8x = x + 1/4x

Q58. Answer: (d) Rs. 20

Given
Principal = Rs 8000
Time = 2 years
Rate of interest = 5%
Formula Used
Simple interest = Principal × rate × time/100
Compound interest = principal[(1 + r/100)^t - 1)
Calculation
=> simple interest = (8000 × 2 × 5)/100 = Rs 800
=> compound interest = 8000[(1 + 1/20)² - 1] = 8000 × 41/400 = Rs 820
=> the difference between simple interest and compound interest = Rs 820 - Rs 800 = Rs 20

Q59. Answer: (c) 1512

Given
From Pie chart,
Students in R school = 14% of total students
Students in S school = 22% of total students
Formula Used
Average = Sum of observation/No. of Observation
Calculation
=> Students in R school = (14/100) × 8400 = 1176
=> Students in S school = (22/100) × 8400 = 1848

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=> Average in School R and S together = (1176 + 1848)/2 = 3024/2 = 1512

Therefore The average number of student in schools R and S together is 1512

Q60. Answer: (c) Rs. 486

Given

Marked price of a books = Rs 540

Formula Used

Discount = Marked price - selling price

Discount % =(discount/marked) × 100

Calculation

=> 10% = (Discount/540) × 100

=> Discount = 54

=> Selling price = Marked price - discount

=> SP = 540 - 54 = Rs 486

Therefore The selling price of books is Rs 486

Q61. Answer: (d) 16 cm

Given

Radius of circle = 10 cm

distance b/w center and chord = 6 cm

Formula Used

$(\text{Hypotnuese})^2 = (\text{Perpendicular})^2 + (\text{Base})^2$

Calculation

=> radius of circle = hypotuese = 10 cm

=> distance b/w center and chord = perpendicular = 6cm

=> so, length of chord = 2 × Base

=> $10^2 = 6^2 + \text{Base}^2$

=> Base = 8 cm

=> so, length of chord = 2 × 8 = 16 cm

Therefore the length of chord AB is 16 cm

Q62. Answer: (c) $(\sec\theta + \tan\theta)^2$

Calculation

$(\sec\theta + \tan\theta)/(\sec\theta - \tan\theta)$

=> Use factorisation method

=> $[(\sec\theta + \tan\theta)/(\sec\theta - \tan\theta)] \times [(\sec\theta + \tan\theta)/\sec\theta + \tan\theta)]$

=> $(\sec\theta + \tan\theta)^2/(\sec^2\theta - \tan^2\theta)$

=> we know that, $\sec^2\theta - \tan^2\theta = 1$

=> $(\sec\theta + \tan\theta)/(\sec\theta - \tan\theta) = (\sec\theta + \tan\theta)2$

Q63. Answer: (c) 400 km

Given

Abhi takes time = 9 hrs

Formula Used

Time = Distance/speed

Calculation

Let the distance be covered by Abhi be 2x

=> 9 hrs = (x/40) + (x/50)

=> x = (9 × 2000)/90

=> x = 200 km

Therefore the total distance covered by Abhi = 2x = 400 km

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Q64. Answer: (c) x = 2, y = 0

Shortcut Trick

For divisibility by 5, the last digit y must be either 0 or 5.

Since the number is also divisible by 8, it must be even, which eliminates y = 5; therefore, y = 0.

For divisibility by 8, the last three digits 3x0 must be divisible by 8.

Testing the smallest values: 300 ÷ 8 (No), 310 ÷ 8 (No), 320 ÷ 8 = 40 (Yes).

Smallest pair is x = 2 and y = 0.

Therefore The correct answer is x = 2, y = 0.

Alternate Method

Given: The number 62783xy is divisible by both 8 and 5.

Condition for Divisibility by 5:

=> The last digit y must be 0 or 5.

Condition for Divisibility by 8:

=> The last three digits 3xy must be divisible by 8.

=> If y = 5, the number 3x5 is odd. An odd number is never divisible by 8.

=> Thus, y = 0 is the only possibility.

Finding the smallest x for 3x0:

=> If x = 0, 300 ÷ 8 = 37.5 (Not divisible)

=> If x = 1, 310 ÷ 8 = 38.75 (Not divisible)

=> If x = 2, 320 ÷ 8 = 40 (Divisible)

=> Comparing values, the smallest values are x = 2 and y = 0.

Therefore The correct answer is x = 2, y = 0.

Additional Information

Divisibility Rule of 8

A number is divisible by 8 if the number formed by its last three digits is divisible by 8 or if the last three digits are 000.

Divisibility Rule of 5

A number is divisible by 5 if its units digit is either 0 or 5.

Divisibility by 40

Since 40 = 5 × 8 (and they are co-prime), any number divisible by both 5 and 8 is also divisible by 40.

Parity Rule for Divisibility

Any number divisible by an even number (like 2, 4, 6, 8, etc.) must itself be an even number.

Q65. Answer: (b) 10

Given:

[(3 + 5 - 4) + (17 - 3 × 4)] + [4 ÷ 2 - 16 ÷ 4 + 3]

Concept Used:

Follow the VBODMAS Rule,

Calculation:

=> [(3 + 5 - 4) + (17 - 3 × 4)] + [4 ÷ 2 - 16 ÷ 4 + 3]

=> [4 + (17 - 12)] + [2 - 4 + 3]

=> [4 + 5] + [1]

=> 10

Q66. Answer: (a) 65° and 50°

Given

angle ABC = 65°

AB = AC {ΔABC is an isosceles traingle}

Formula Used

The sum of angle of triangle is 180°

Calculation

=> We know that, in isosceles triangle 2 sides and 2 angle are equal

=> If AB = AC then angle ABC = angle ACB = 65°

=> so, angle BCA = angle ACB = 65°
=> angle ABC + angle BAC + angle ACB = 180°
=> angle BAC = 180° - 130°
=> angle BAC = 50°

Q67. Answer: (b) 343 cm3

Given:
Length of side cube = 7cm
Formula Used:
volume of cube = $(side)^3$
Calculation:
=> Volume of the cube = $7^3 = 343\ cm^3$
Therefore the volume of the cube is 343 cm3

Q68. Answer: (d) 12 years

Given
The average age of Sonu, Hari and Govind = 30 years
Formula Used
Average = Sum of observation/No. of observation
Calculation
=> Sum of age = 30 × 3 = 90
=> let the age of Sonu, Hari and Govind be 4x, 5x and 6x
=> 4x + 5x + 6x = 90
=> 15x = 90
=> x = 6
=> Difference between the ages of Sonu and Govind = 6x - 4x
=> 2x = 2 × 6 = 12 years
Therefore the difference between the ages of Sonu and Govind is 12 years

Q69. Answer: (c) a = 1 and b = 2

Given
p(x) = x3 + 2x2 - ax - b
g(x) = (x2 - 1)
Calculation
=> g(x) = 0
=> (x2 - 1) = 0
=> x = 1, -1
=> p(1) = 0
=> 13 + 2(1)2 - a - b = 0
=> a + b = 3 ----(i)
=> p(-1) = 0
=> (-1)3 + 2(-1)2 + a - b = 0
=> a - b = -1 ----(ii)
=> from eq(i) and (ii)
=> a = 1, b = 2

Q70. Answer: (a) 5 : 6

=>From the Graph,
=> Number of total student in 2017 - 2018 = 25 + 40 + 53 + 32 = 150
=> Number of total student in 2018 - 2019= 30 + 48 + 64 + 38 = 180
=> Required Ratio = 150 : 180 = 5 : 6
Therefore the ratio of the total number of students appeared in examination in 2017 - 18 and 2018 - 19 is 5 : 6

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Q71. Answer: (d) 12 cm

Given

Area of Quadrilateral = 12√3 cm²

Concept Used

We know that The median of a triangle is cut the triangle in equal areas

Area of triangle = (√3/4) (side)²

Calculation

=> Area of ΔABC = Area of Quadrilateral BDGF × 3

=> Area of ΔABC = 12√3 × 3

=>Area of ΔABC = 36√3 cm²

=> 36√3 = (√3/4) × (side)²

=> side = 12 cm

Therefore the side of ΔABC is 12 cm

Q72. Answer: (d) 16.7%

Total number of students appeared in 2017-18 = 25 + 40 + 53 + 32 = 150

Total number of students appeared in 2018-19 = 30 + 48 + 64 + 38 = 180

Therefore Required percentage = (180 - 150) × 100/180 = 16.67% ≈ 16.7%

Q73. Answer: (c) 1

Given

(sin23° cos67° tan45° +cos23° sin67° cot45°)/(2sin45° cos45°)

Formula Used

sin(90° - θ) = cosθ

cos(90 - θ) = sinθ

sin² θ + cos²θ = 1

2sinθcosθ = sin2θ

Calculation

tan 45° = 1, cot 45° = 1

sin23° = sin(90 - 67)° = cos67°

cos23° = cos(90 - 67)° = sin67°

(sin23°sin23° + cos23° cos23°)/sin90°

=> sin² 23° + cos² 23° = 1

Formula used:

SinA. CosB + CosA. SinB = Sin(A + B)

tan 45° = 1, cot 45° = 1

Calculation:

[Sin23°. Cos67° .Tan45° + Cos23°. Sin67°. Cot45°]/2 Sin45°. Cos45°

=> [Sin23°. Cos67° + Cos23°. Sin67°]/2 × (1/√2) × (1/√2)

=> Sin(23° + 67°)/1

=> Sin90°

=> 1

Therefore The required value of the trigonometric expression is 1.

Q74. Answer: (d) 12 cm

Given

OA = 13 cm

OP = 5cm

Formula Used

(Hypotnuese)² = (Perpendicular)² + (Base)²

Calculation

We know that, tangent makes right angle with center of circle

=> ΔOPA is right angle triangle, angle OPA = 90°

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=> (Hypotnuese)2 = (Perpendicular)2 + (Base)2

=> $(OA)^2 = (AP)^2 + (OP)^2$

=> $13^2 = AP^2 + 5^2$

=> AP = 12 cm

Q75. Answer: (a) 23

Given

$x + 1/x = 5$

Formula Used

if $x + 1/x = a$

then, $x^2 + 1/x^2 = a^2 - 2$

Calculation

=> we have, $x + 1/x = 5$

=> then, $x2 + 1/x2 = 52 - 2 = 23$

Therefore the value of $x2 + 1/x^2$ is 23

Q76. Answer: (b) Jawaharlal Nehru

The correct answer is Jawaharlal Nehru.

• In 1946, an Advisory Planning Board was set up by the interim Government of India with K. C. Neogyas its Chairman. Immediately after independence in 1947, the Economic Programme Committee (EPC) was formed by the All India Congress Committee with Nehru as its chairman.

Additional Information

• First of all the idea of a planned economy was crystallized in the 1930s when our national leaders came under the influence of socialist philosophy.

• India's Five-year plans were very much impressed by the rapid strides achieved by the USSR through five years plans.

• Immediately after independence in 1947, the Economic Programme Committee (EPC) was formed by the All India Congress Committee with Nehru as its chairman.

• This committee was to make a plan to balance private and public partnerships and urban and rural economies.

• In 1948, this committee recommended forming a planning commission.

Q77. Answer: (c) Ambubachi Mela

The correct answer is Ambubachi Mela.

• Ambubachi Mela is one of the biggest congregations of eastern India. During the period of Ambubachi from the seventh to the tenth day of the Hindu month of "Asadha", the doors of the shrine are closed to all.

• It is the celebration of the yearly menstruation course of goddess Kamakhya.

Additional Information

• It is believed that the presiding goddess of the temple, Devi Kamakhya, the Mother Shakti, goes through her annual cycle of menstruation during this time stretch.

• Ambubachi Mela is an annual fair organized at Guwahati's Kamakhya Temple.

• The temple is perched on top of the Nilachal Hill and is one of the most famous tourist destinations in Assam.

• The Kamakhya Temple is known to be one of the 51 shakti peethas of goddess Shakti.

Q78. Answer: (b) Priyanka Chopra

The correct answer is Priyanka Chopra.

• Unicef honored Indian actress Priyanka Chopra with the Danny Kaye Humanitarian Award at the Unicef Snowflake Ball in December.

• The event was held on December 3 in New York.

Additional Information

• UNICEF works in the world's toughest places to reach the most disadvantaged children and adolescents – and to protect the rights of every child, everywhere.

• UNICEF's mission is The world has changed, but children's needs have not.

• UNICEF is present in 191 countries and territories around the world, but not involved in nine others (Bahamas, Brunei, Cyprus, Latvia, Liechtenstein, Malta, Mauritius, Monaco, Singapore, and Taiwan).

• UNICEF headquarters is in New York.

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Q79. Answer: (d) Odisha

The correct answer is Odisha.

• Chief Minister Naveen Patnaik announced that Odisha won the World Habitat Award 2019 for the Jaga Mission.

Additional Information

• Initiated in 1985, the annual World Habitat Awards competition attracts projects which provide an outstanding contribution to people's living conditions in a variety of contexts.

• More than 250 outstanding World Habitat Awards projects have been recognized over the years, demonstrating substantial, lasting improvements in living conditions.

• The twin goals of the Habitat Agenda are adequate shelter for all and the development of sustainable human settlements in an urbanizing world.

Q80. Answer: (b) Smriti Mandhana

The correct answer is Smriti Mandhana.

• Indian captain Virat Kohli was named The Wisden Almanack's Leading Cricketer of the Year for 2018 while Smriti Mandhana won the Women's Leading Cricketer award.

• Kohli, who has now won the title thrice, is third only to Sir Don Bradman and Jack Hobbs who have won it 10 and eight times respectively.

Additional Information

• Smriti Shriniwas Mandhana (born 18 July 1996) is an Indian cricketer who plays for the Indian women's national team.

• In June 2018, the Board of Control for Cricket in India (BCCI) named her the Best Women's International Cricketer.

• Smriti Mandhana at just 18 years and 29 days made her debut in Indian Women Test Team.

• She was 18 years and 29 days when she made her test debut in 2014.

Q81. Answer: (c) 2010

The correct answer is 2010.

• The symbol is an amalgam of Devanagari "Ra" and the Roman Capital "R" with two parallel horizontal stripes running at the top representing the national flag and also the "equal to" sign.

• The Indian Rupee sign was adopted by the Government of India on 15th July 2010.

Additional Information

• Udaya Kumar was just a day or two away from starting his new job in the Department of Design at the Indian Institute of Technology (IIT), Guwahati, in 2010 when he won a national contest to design a symbol for the Indian rupee.

• The Indian rupee (INR) is the currency of India.

• INR is the International Organization for Standardization currency code for the Indian rupee, for which the currency symbol is Rs.

.

Q82. Answer: (a) Ramesh Pandey

The correct answer is Ramesh Pandey.

• Senior Indian Forest Service officer Ramesh Pandey was selected for the prestigious Asia Environmental Enforcement Award by the United Nations Environment Programme.

Additional Information

• The 1996-batch IFS officer, posted as Chief Conservator Forests in Lucknow and Secretary, UP State Bio-diversity Board, is known for his investigation and intelligence gathering on poachers.

• Pandey also received the award at the United Nations Conference Centre in Bangkok.

• The purpose of the Asia Environmental Enforcement Awards is to publicly recognize outstanding achievements by public organizations and individuals in Asia to combat transboundary environmental crime.

Q83. Answer: (d) 2007

The correct answer is 2007.

• The Rig Veda manuscripts from Bhandarkar Oriental Research Institute, Pune, have been nominated for inscription in UNESCO's "Memory of the World" Register 2007.

Additional Information

• The 30 manuscripts of Rigveda preserved at the Bhandarkar Oriental Research Institute, Pune were added to UNESCO's Memory of the World Register in 2007.

• Rigveda, (Sanskrit: "The Knowledge of Verses") also spelt Rgveda, the oldest of the sacred books of Hinduism, composed in an ancient form of Sanskrit about 1500 BCE, in what is now the Punjab region of India and Pakistan.

• According to tradition, Vyasa is the compiler of the Vedas, who arranged the four kinds of mantras into four Samhitas

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(Collections).

• Lord Shiva is the all-pervading God of all gods, the supreme consciousness according to Vedas and Upanishads.

Q84. Answer: (c) Babur

The correct answer is Babur.

• In 1526, the Mughal forces of Babur, the Timurid ruler of Kabulistan, defeated the much larger ruling army of Ibrahim Lodi, Sultan of Delhi.

Additional Information

• The first battle of Panipat was fought in 1526 between Babur and Ibrahim Lodi.

• Panipat was a legendary location where after 1526, multiple battles were fought between the Mughal and varying other forces.

• He was invited by Daulat Khan, the governor of Punjab, to invade the region and unsettle Ibrahim Lodi.

• Lodi's army relied heavily on cavalry and especially on elephants, which in earlier times, could shock the enemy and rout them.

Q85. Answer: (d) Jupiter

The correct answer is Jupiter.

• The gas giants of our solar system are Jupiter, Saturn, Uranus, and Neptune.

• These four large planets, also called jovian planets after Jupiter, reside in the outer part of the solar system past the orbits of Mars and the asteroid belt.

Additional Information

• A gas giant is a large planet mostly composed of helium and/or hydrogen.

• These planets, like Jupiter and Saturn in our solar system, don't have hard surfaces and instead have swirling gases above a solid core.

• The planet is any of the large bodies that orbit the Sun, including Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune, in the order of closeness to the Sun.

Q86. Answer: (c) 12

The correct answer is 12.

Key Points

• Function Keys are keys on the keyboard which cause the operating system to command an interpreter or an application to perform certain actions on the screen.

• There are 12 keys on the keyboard from F1 to F12.

Additional Information

• The function keys or F keys are lined across the top of the keyboard and labelled F1 through F12.

• These keys act as shortcuts, performing certain functions, like saving files, printing data, or refreshing a page.

• For example, the F1 key is often used as the default help key in many programs.

Q87. Answer: (d) General Bipin Rawat

The correct answer is General Bipin Rawat.

• General Bipin Rawat was named the country's first Chief of Defence Staff.

Key Points

• Indian soldiers are considered one of the best on high elevations, jungle combat, and mountain warfare.

• The Siachen conflict is an excellent example of mountain warfare.

• The conflict between India and Pakistan over the disputed Siachen Glacier in Kashmir is common knowledge.

Important Points

• Lieutenant General Manoj Pande was appointed as 29th Chief of the Army Staff (2022).

• After the death in a helicopter crash of the country's first Chief of Defence Staff, General Bipin Rawat (retired).

• The Government announced Lt General Anil Chauhan (retired) as the new CDS.

• He is the second CDS of India.

Q88. Answer: (d) Richard Willstätter

The correct answer is Richard Willstätter.

• The Nobel Prize in Chemistry 1915 was awarded to Richard Martin Willstätter "for his researches on plant pigments, especially chlorophyll."

Additional Information

• The Royal Swedish Academy of Sciences selects the Nobel Laureate in Physics and Chemistry, Karolinska Institute selects

Nobel Laureate in the field of Physiology or Medicine, the Swedish Academy for the Nobel Prize selects Nobel Laureate in Literature, and a Committee of five persons to be elected by the Norwegian Parliament selects for the Nobel Peace Prize.

• In 1968, the Sveriges Riksbank established the Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel.

• The Royal Swedish Academy of Sciences was given the task to select the Laureates in Economic Sciences starting in 1969.

• On 27 November 1895, Alfred Nobel signed his testament, giving the largest share of his fortune to a series of prizes in Physics, Chemistry, Medicine or Physiology, Literature, and Peace.

Q89. Answer: (a) Vidiadhar Surajprasad Naipaul

The correct answer is Vidiadhar Surajprasad Naipaul.

• A Million Mutinies Now is a nonfiction book by V. S. Naipaul.

• It was published in 1990.

• It is a travelogue written during the author's sojourn in his ancestral land of India.

Additional Information

• V.S. Naipaul tells stories that show us ourselves and the reality we live in.

• His use of language is as precise as it is beautiful. Simple, strong words, with which to express the humanity of all of us.

• The Nobel Prize is an international award administered by the Nobel Foundation in Stockholm, Sweden, and based on the fortune of Alfred Nobel, Swedish inventor, and entrepreneur.

• In 1968, Sveriges Riksbank established The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, founder of the Nobel Prize.

Q90. Answer: (a) Lord Wellesley

The correct answer is Lord Wellesley.

• The doctrine of subsidiary alliance was introduced by Lord Wellesley.

• Under the subsidiary alliance system, the ruler of the allying Indian State was compelled to accept the permanent stationing of a British force within his territory and to pay a subsidy for its maintenance.

Additional Information

• The term "Subsidiary Alliance" was introduced by French Governor Dupleix and was firstly used by Lord Wellesley who effectively institutionalized the policy of “non-intervention” which made the Nawab and Nizams subsidiary allies by signing almost 100 such treaties.

• The allies of the Indian state’s rulers were compelled to accept the permanent garrison of the British Army within their territories and to pay a subsidy for its maintenance.

• The Indian ruler could not employ any European in their service without prior approval of the British.

• They could not negotiate with any other Indian rulers without consulting the Governor-General.

Q91. Answer: (c) Heike Kamerlingh Onnes

The correct answer is Heike Kamerlingh Onnes.

Key Points

• Superconductivity was discovered in 1911 by the Dutch physicist Heike Kamerlingh Onnes, and he was awarded the Nobel Prize for Physics in 1913 for his low-temperature research.

• In 1908, Kamerlingh Onnes successfully liquefied helium. This allowed him to investigate the thermodynamics properties of helium in the liquid and gas phases.

• He also investigated the electrical properties of metals down to about 1K.

• In 1911, he observed the transition to a "zero resistance state" in a pure mercury sample as the temperature of the sample was lowered to below 4.2K.

• He labeled this "zero resistance state" as "superconductivity."

Additional Information

• Superconductivity:-

• It is a complete disappearance of electrical resistance in various solids when they are cooled below a characteristic temperature. This temperature, called the transition temperature, varies for different materials but generally is below 20 K (−253 °C).

Q92. Answer: (c) Virendra Kumar

The correct answer is Virendra Kumar.

• Virendra Kumar was sworn in as Protem Speaker of 17th Lok Sabha. President Ram Nath Kovind swore in a seven-term member of Parliament Virendra Kumar as the Protem Speaker of Lok Sabha.

Additional Information

• The first session of the newly-constituted 17th Lok Sabha was held from June 17 to July 26.

• The Election for the Lok Sabha Speaker was scheduled to be held on June 19, 2019.

• Virendra Kumar was elected to the 11th Lok Sabha for the first time in 1996 and became a member of the Standing Committee on Labour and Welfare.

• Kumar was also served a prison sentence of 16 months under the Maintenance of Internal Security Act (MISA) in protest against the imposition of Emergency.

Q93. Answer: (c) Pyrheliometer

The correct answer is Pyrheliometer.

• For quality data of solar radiation, pyranometers have to be calibrated at regular intervals and required proper maintenance.

• The instrument used for measuring the intensity of direct solar radiation, that is, beam radiation is called a pyrheliometer.

Additional Information

• An optometer is a device that is used to assess a patient's vision, looking both at power and range.

• This device is utilized by an optometrist or ophthalmologist in a clinical setting.

• A marine chronometer is a precision timepiece that is carried on a ship and employed in the determination of the ship's position by celestial navigation.

• It is used to determine longitude by comparing Greenwich Mean Time (GMT) and the time at the current location found from observations of celestial bodies.

• A refractometer is used to determine a concentration of a particular substance within a given solution.

• It operates based on the principle of refraction.

• When rays of light pass from one medium into another, they are bent either toward or away from a normal line between the two media.

Q94. Answer: (d) Demography

The correct answer is Demography.

• Demography is the statistical study of human populations.

• Demography examines the size, structure, and movements of populations over space and time.

• It uses methods from history, economics, anthropology, sociology, and other fields.

Additional Information

• Geomorphology is the study of landforms, their processes, form, and sediments at the surface of the Earth (and sometimes on other planets).

• The study includes looking at landscapes to work out how the earth's surface processes, such as air, water, and ice, can mold the landscape.

• Anthropology is the study of people, past and present, with a focus on understanding the human condition both culturally and biologically.

• This joint emphasis sets anthropology apart from other humanities and natural sciences.

• Sociology is the study of societies and how humans act in groups.

Q95. Answer: (d) Less than 5.6

The correct answer is Less than 5.6.

• Clean rain has a pH value of between 5.0 and 5.5, which is slightly acidic.

• However, when rain combines with sulfur dioxide or nitrogen oxides—produced from power plants and automobiles—the rain becomes much more acidic.

• Typical acid rain has a pH value of 4.0.

Additional Information

• Water pH is the number of free hydrogen ions in a given sample, and the scale ranges from 0 to 14, with numbers below 7 being acidic.

• Each level down the scale represents a tenfold increase in hydrogen ions, so a pH of 5 has ten times more ions than a pH of 6.

• Normally, lakes will be neutral, pH levels between 6 and 8, but lakes with pH below 5 are considered acidic.

• In addition to acid rain, acidic rainfall leeching through soils that lack acid-buffering capability will eventually wind up in streams and lakes.

• Normally, lake water contains bicarbonates and other compounds that have the ability to buffer their pH levels, but acid rain, in particular, disrupts this ability.

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Q96. Answer: (c) Ctrl + K – Cut selected text

Ctrl + K – Cut selected text is NOT correct.

• Press and hold down on any text with your finger and then let go.

• Upon letting go, a menu should appear on the top-right of the screen (shown to the right) that allows you to cut.

• Highlight the text you want to cut and then press your finger on Cut to cut.

Additional Information

• Ctrl + X is used to Cut selected text.

• Control-K is a common computer command.

• It is generated by pressing the K key while holding down the Ctrl key on most computer keyboards.

• In hypertext environments that use the control key to control the active program, control-K is often used to add, edit, or modify a hyperlink to a Web page.

Q97. Answer: (c) 5

The correct answer is 5.

• Viswanathan Anand is a five-time world chess champion.

• He defeated Alexei Shirov in a six-game match to win the 2000 FIDE World Chess Championship, a title he held until 2002.

Additional Information

• Magnus Carlsen (Norway) is the number one chess player in the world for a long time.

• He is followed by Caruana, Fabiano USA. Viswanathan Anand, (India) is the number one chess player in India but he is ranked at 15 in the world.

• The Grandmaster is the highest title a chess player can attain apart from the World Champion.

• The title of Grandmaster (GM) is awarded to chess players by the world chess organization FIDE.

• This is the French acronym of 'The Fédération Internationale des Échecs'.

• The title of Grandmaster can be attained by both men and women.

• Till July 2020, 1918 GM titles have been awarded by the FIDE, and the majority of them are won by the men. Nona Gaprindashvili (Georgia) was the first women's Grandmasters (GM) in the world in 1978.

Q98. Answer: (d) France

The correct answer is France.

• The Indian Preamble borrowed its ideals of Liberty, Equality, and Fraternity from the French Constitution.

• The Indian state came to be recognized as the ‘Republic of India’ in the lineage of the Constitution of France.

Additional Information

• The Constitution of India is the backbone of democracy in our country.

• It is an umbrella of rights that gives the citizens an assurance of a free and fair society.

• The Constituent Assembly adopted the Constitution on 26th November 1949 and it came into effect on 26th of January 1950.

• The Constitution of 1950 was a by-product of the legacy started by the Government of India Act 1935.

• This was the longest act passed by the British government with 321 sections and 10 schedules.

• This act had drawn its content from four sources – Report of the Simon Commission, discussions and deliberations at the Third Round Table Conference, the White Paper of 1933, and the reports of the Joint select committees.

Q99. Answer: (c) Mecheri

The correct answer is Mecheri.

• Mecheri sheep are medium-sized animals with a compact body and covered with short hairs, which are not shorn.

• They are light brown in colour.

• The profile is slightly similar to the Roman nose.

Additional Information

• The Manx Loaghtan sheep is a rare and ancient breed of sheep from the Isle of Man.

• Corriedales are good mothers and they often give birth to multiple lambs.

• They're known to be a gentle and easily maintained breed that can do well in hot and cold climates and are found all over the world.

• The American Sheep Industry Association lists Suffolk as the largest sheep breed in the world, with mature rams reaching weights of 400 pounds and mature ewes weighing up to 300 pounds.

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Q100. Answer: (d) Dipa Karmakar

The correct answer is Dipa Karmakar.

• Dipa Karmakar became the first gymnast to have received the prestigious Rajiv Gandhi Khel Ratna Award.

• She received honours from the President at the Rashtrapati Bhavan on August 29, 2016.

• She joined the club of 12 eminent female sports personalities who have been awarded the Rajiv Gandhi Khel Ratna Award.

• It was instituted in 1991-92.

Additional Information

• The Ministry of Sports, Govt of India announce many sports awards like Arjuna Award, Eklavya Award, Major Dhyana Chand Award, Dronacharya Award, and Rajiv Gandhi Khel Ratna Award.

• The Rajiv Gandhi Khel Ratna Award is the highest sporting honour of the Republic of India.

• The government has enhanced the prize money of the National Sports Awards recently i.e. for the Rajiv Gandhi Khel Ratna Award from Rs. 7.5 lakh to Rs 25 lakh.

• This award is given annually to those sportspersons who make the country proud at international events.

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