SSC CHSL 2020 Official Paper 28 (Held on: 10 Aug 2021 Shift 1) (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. Direction: Fill in the blank with the most appropriate word.

The air _____ has gone up significantly.

(a) fare
(b) rent
(c) cost
(d) charge

Q2. Select the misspelt word.

(a) moisture
(b) mature
(c) mischief
(d) misrable

Q3. Direction: Select the most appropriate word to fill in the blank.

In the past month, the price of oil has _____ several times.

(a) fluctuated
(b) fumbled
(c) failed
(d) faltered

Q4. Direction: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

How long have you being seating on this bench?

(a) been seating
(b) been sitting
(c) being sat
(d) No substitution

Q5. Direction: In the given sentence, identify the segment which contains a grammatical error.

We are yet living in the same house.

(a) We are
(b) in the
(c) yet living
(d) same house

Q6. Select the most appropriate ANTONYM of the given word.

UPHOLD

(a) Oppose
(b) Endorse

(c) Maintain
(d) Support

Q7. Direction: Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Unless someone makes a complaint, they will not clear the garbage from the street.

(a) Without someone makes a complaint
(b) No substitution required
(c) Despite someone makes a complaint
(d) Except someone makes a complaint

Q8. Select the most appropriate one-word substitution for the given words.

Leather straps put around a horse's head to control it

(a) stirrup
(b) bridal
(c) bridle
(d) saddle

Q9. Direction: Select the correct indirect form of the given sentence.

Mother said, "All the guests will arrive tonight."

(a) Mother said that all the guests will arrive tonight.
(b) Mother said that all the guests would arrive that night
(c) Mother said that all the guests will arrive that night.
(d) Mother told that all the guests would arrive tonight.

Q10. Direction: Given below are four sentences in jumbled order. Select the option that gives their correct order.

A. His school was closed as it was the height of summer.
B. It was on one such day that Ranji discovered a pool in the forest.
C. As he had no friends yet, he wandered alone in the hills and forests.
D. Ranji had been less than a month in Rajpur.

(a) BADC
(b) CBDA
(c) ACBD
(d) DACB

Q11. Select the most appropriate meaning of the given idiom.

Rank and file

(a) A very well-organised company
(b) Financial activities in a firm
(c) Ordinary workers in a company
(d) The manager of a personnel department

Q12. Select the most appropriate synonym of the given word.

Profuse

(a) Consistent
(b) Abundant
(c) Meagre
(d) Limited

Q13. Select the option that expresses the given sentence in passive voice

The clouds hid the sun.

(a) The sun was hidden by the clouds.
(b) The sun was hide by the clouds.
(c) The clouds are hid by the sun

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(d) The sun is hidden by the clouds.

Q14. Select the most appropriate antonym of the given word.

Expunge

(a) Insert
(b) Remove
(c) Deplete
(d) Exhaust

Q15. Direction: Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

A. The word Jama means ‘a robe or shawl’ and War means ‘Yard (the measuring unit)’.

B. Jamawar (also spelled as Jamavar) is a fabric that has its roots in Kashmir.

C. People in the earlier times used to buy a yard of the shawl to protect themselves from the chilly winter.

D. The Jamawar is an adulterated form of Pashmina silk since it contains a blend of cotton and wool.

(a) DCBA
(b) BACD
(c) DCAB
(d) BCAD

Q16. Select the INCORRECTLY spelt word.

(a) Plump
(b) Gnaw
(c) Rinckle
(d) Muscle

Q17. Direction: The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don’t find any error, mark ‘No error’ as your answer.

The Prime Minister chair a high-level meeting / with senior officials / to review the Covid situation.

(a) to review the Covid situation
(b) No error
(c) The Prime Minister chair a high-level meeting
(d) with senior officials

Q18. Direction: Select the most appropriate meaning of the underlined idiom in the given sentence.

My brother has decided to settle in London for good.

(a) for a promotion
(b) forever
(c) briefly
(d) for a better income

Q19. Select the option that can be used as a one-word substitute for the given group of words.

A large cage, building or enclosure to keep birds

(a) Zoo
(b) Aquarium
(c) Aviary
(d) Apiary

Q20. Select the most appropriate synonym of the given word.

FORSAKE

(a) desert
(b) claim
(c) help
(d) hold

Directions

Direction: In the following passage, some words have been deleted. Select the most appropriate option to fill in each blank.

Kashmiri carpets have been appreciated since a long time for their intricate work. Their uniqueness (1) ____ in their manufacturing. These carpets are (2) __ handmade and are knotted, not tufted. You can (3) __ different carpets from a variety of silk or woolen ones. These are (4) __ in colourful themes. The main art of carpet manufacturing is (5) ____ with the knotting. These knots determine the durability and value of the carpet.

Q21. Select the most appropriate option to fill in blank no. 1.

(a) lies
(b) lying
(c) lie
(d) is lying

Q22. Select the most appropriate option to fill in blank no. 2.

(a) purely
(b) absolutely
(c) merely
(d) simply

Q23. Select the most appropriate option to fill in blank no. 3.

(a) choose
(b) decide
(c) elect
(d) indicate

Q24. Select the most appropriate option to fill in blank no. 4.

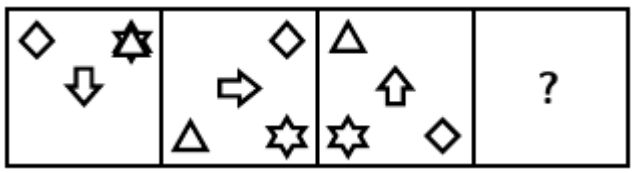
(a) defined
(b) described
(c) designed
(d) devised

Q25. Select the most appropriate option to fill in blank no. 5.

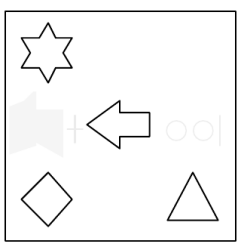
(a) assisted
(b) attended
(c) abetted
(d) associated

GENERAL INTELLIGENCE

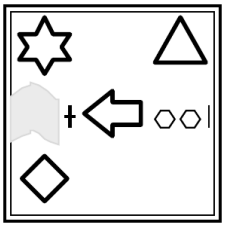
Q26. Select the figure that will replace the question mark (?) in the following figure series.



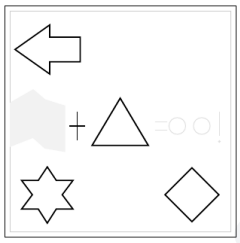
(a)



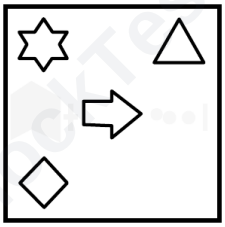
(b)



(c)



(d)



Q27. If Raman is the brother of the son of Kshitij's son, how is Raman related to Kshitij?

(a) Cousin
(b) Grandson
(c) Son
(d) Nephew

Q28. In a code language, if FORTUNE is written as 716192122156, then how will OCTOBER be written in the same language?

(a) 16420173819
(b) 16421163619
(c) 14422163519
(d) 1532063618

Q29. 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:

All computers are calculators.

All calculators are boxes.

Conclusions:

I. All computers are boxes.

II. Some boxes are computers.

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

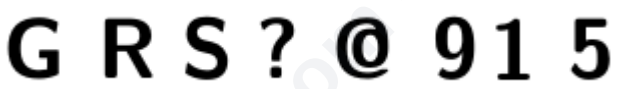
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Q30. Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

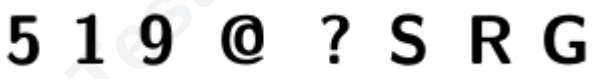
1. Universe
2. Chennai
3. World
4. Asia
5. Tamil Nadu

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

Q31. Select the correct mirror image of the given figure when the mirror is placed at the right side.



(a)



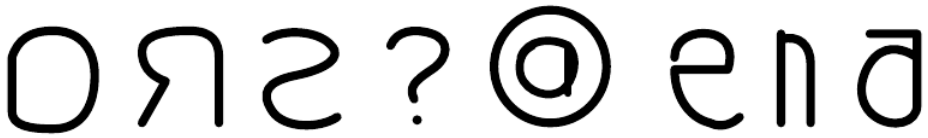
(b)



(c)



(d)



Q32. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

a _ bcd _ _ aabc _ dea _ _ cd _ e

(a) dabdade
(b) adabded
(c) adedabd
(d) adebdda

Q33. Select the option in which the numbers share the same relationship as that shared by the numbers in the given set.

(7, 4, 33)

(a) (11, 8, 175)
(b) (9, 5, 56)
(c) (8, 5, 40)
(d) (7, 4, 71)

Q34. Select the option in which the numbers are related in the same way as are the numbers of the following set.

29 : 36 : 39

(a) 54 : 58 : 61
(b) 69 : 72 : 76
(c) 48 : 52 : 55
(d) 78 : 79 : 82

Q35. Select the option that is related to the third term in the same way as the second term is related to the first term.

DEBONAIR : EDRIOBAN :: HALLMARK : ?

(a) AHLLAMKR
(b) LLAMKRAM
(c) AHKRLLAM
(d) AHKRLLMA

Q36. Which two digits need to be interchanged so as to balance the given equation?

75 ÷ 18 + 51 × 8 − 82 = 87

(a) 5 and 2
(b) 8 and 2
(c) 7 and 8
(d) 1 and 5

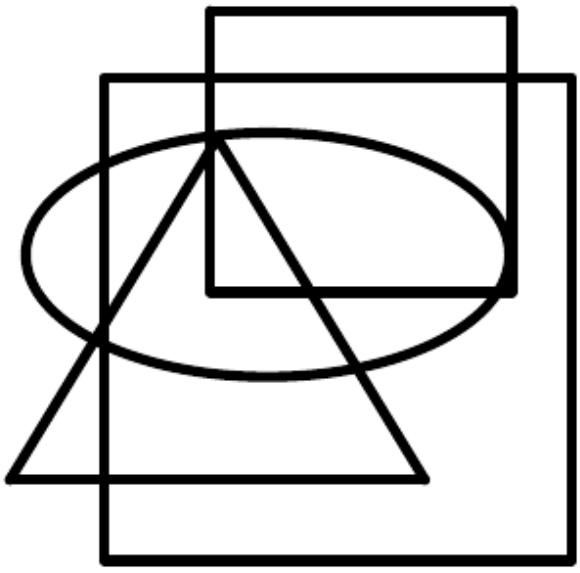
Q37. In a certain code language, ENDORSE is written as VMWLIHV. How will INSTRUCT be written in that language?

(a) SMSGSZPR
(b) RMSHRZPG
(c) SNRGSAOT
(d) RMHGIFXG

Q38. Vishal has a total of Rs. 4,100 in the denominations of 5, 10, 20 and 50 rupee notes. He has an equal number of 5 and 10 rupee notes. The number of 20 rupee notes is double the number of 5 rupee notes. The number of 50 rupee notes is thrice the number of 10 rupee notes. How many 5 rupee notes are there with Vishal?

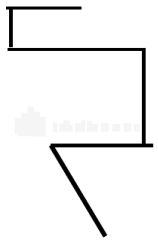
(a) 30
(b) 40
(c) 10
(d) 20

Q39. Select the option that is embedded in the given figure (rotation is NOT allowed).

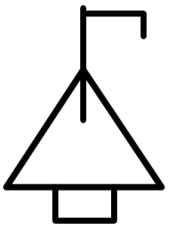


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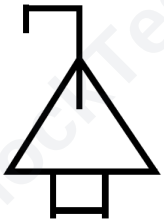
(a)



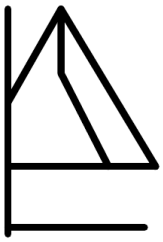
(b)



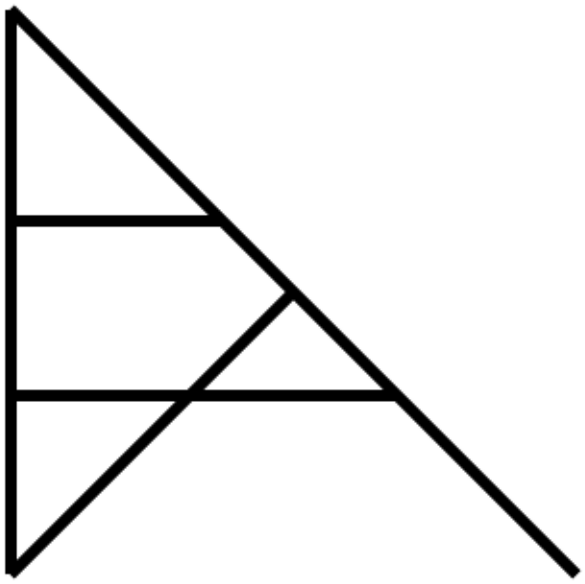
(c)



(d)



Q40. How many triangles are there in the figure given below?



(a) 8
(b) 6

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(c) 9
(d) 7

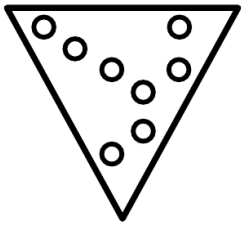
Q41. Select the option that is related to the third word in the same way as the second word is related to the first word.
Bed : Mattress : : Chair : ?
(a) Foam
(b) Pillow
(c) Cushion
(d) Sack

Q42. Four options have been given, out of which three are alike in some manner and one is different. Select the option that is different.
(a) Chandigarh
(b) Delhi
(c) Puducherry
(d) Jammu & Kashmir

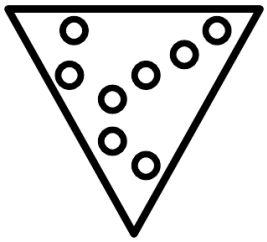
Q43. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



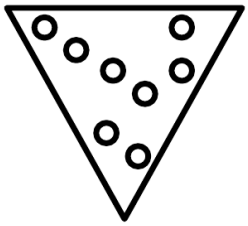
(a)



(b)

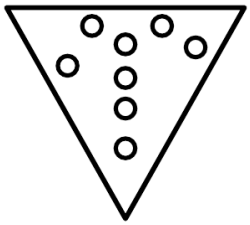


(c)



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(d)



Q44. Select the number from among the given options that can replace the question mark (?) in the following series.

8, 24, 48, 80, ?, 168

(a) 122
(b) 116
(c) 120
(d) 118

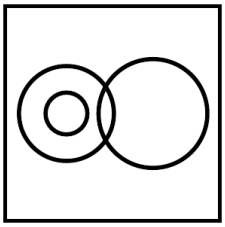
Q45. Three of the following four letter-clusters are alike in a certain way and one is different. Select the odd one.

(a) ACFJ
(b) LNQU
(c) KMQT
(d) QSVZ

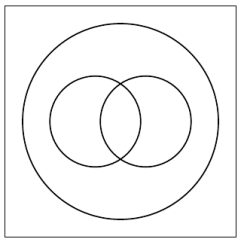
Q46. Which of the following Venn diagrams best represents the words given below?

Engineers, Educated Persons, Males

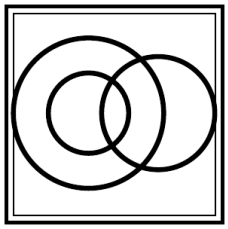
(a)



(b)

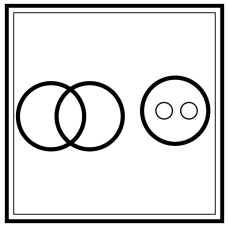


(c)



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(d)



Q47. Select the option that is related to the third number in the same way as the second number is related to the first number.

6 : 27 : : 9 : ?

(a) 110
(b) 66
(c) 95
(d) 74

Q48. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the one that is different.

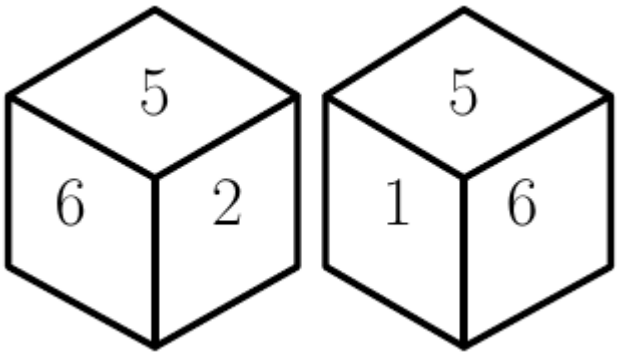
(a) 11 : 123
(b) 17 : 291
(c) 15 : 227
(d) 13 : 169

Q49. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Growth : Expansion

(a) Child : Birth
(b) Urge : Request
(c) First : Last
(d) Temporary : Permanent

Q50. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6. Which number is on the face opposite to the face showing '2'?



(a) 6
(b) 3
(c) 1
(d) 5

QUANTITATIVE APTITUDE

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Q51. Simplify the given expression.

$(x-2/x)^3-(x+2/x)^3$

(a) $-4(x^3+4/(x^3))$
(b) $-4(3x+4/(x^3))$
(c) $2(x-4/(x^3))$
(d) $4(3x-4/(x^3))$

Q52. Nalini's younger brother is 12 years old. If the ratio of the age of Nalini to that of her brother is 7 : 6, then what will be ratio in their ages 6 years hence?

(a) 10 : 9
(b) 13 : 12
(c) 10 : 6
(d) 17 : 15

Q53. 10 men or 15 women can complete a work in 30 days. In how many days can 15 men and 27 women complete the work?

(a) 91/11
(b) 61/11
(c) 51/11
(d) 111/11

Q54. A person saves 25% of his income. If his income increases by 20% and his saving remains the same, then what will be the increased percentage of his expenditure?

(a) 30
(b) 26
(c) 262/3
(d) 20

Q55. What is the sum of all the possible values of k for which a seven-digit number 23k567k is divisible by 3?

(a) 15
(b) 16
(c) 3
(d) 109

Q56. In triangle ABC, AD is the internal bisector of angle A meeting BC at D. If BD = 3.6 cm and BC = 8 cm, then the ratio of AB to AC will be:

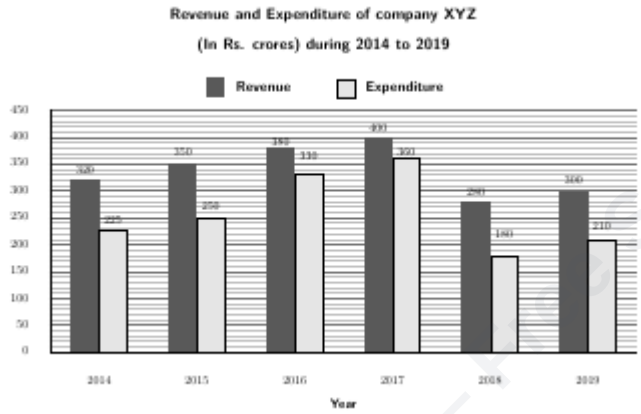
(a) 7 : 13
(b) 9 : 11
(c) 13 : 7
(d) 11 : 9

Q57. After allowing a discount of 15% on the marked price of an article, it was sold for Rs. 425. Had the discount not been given, the profit would have been 25%. What was the cost price (in Rs.) of the article?

(a) 325
(b) 450
(c) 400
(d) 500

Q58. Study the given graph and answer the question that follows.

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By what percentage is the average expenditure of the company in 2014, 2016, and 2018 less than the revenue in 2017?

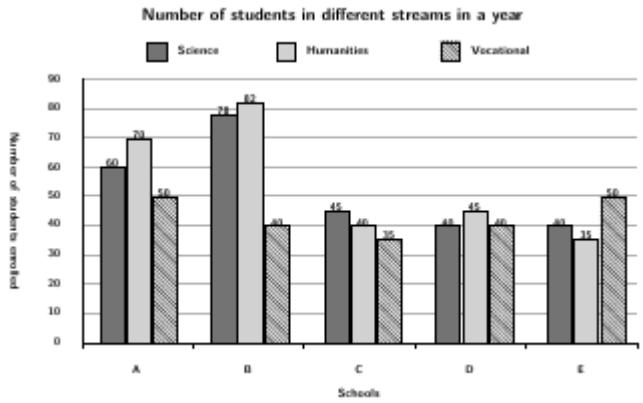
(a) 63.27%
(b) 38.75%
(c) 56.25%
(d) 37.5%

Q59. The simple interest on a sum of Rs. 12,000 at the end of 5 years is Rs. 6,000. What would have been the compound interest on the same sum at the same rate for 3 years when compounded annually?

(a) Rs. 3,970
(b) Rs. 3,600
(c) Rs. 3,972
(d) Rs. 2,520

Q60. The number of students enrolled in different streams at the Senior Secondary level in five schools is shown in the bar graph.

What is the ratio of the number of students in the science stream of schools A, B, and D taken together to the number of students of the vocational stream in schools B, D, and E has taken together?



(a) 7 : 5
(b) 89 : 65
(c) 94 : 65
(d) 178 : 125

Q61. 161/4÷[21/6+{41/3-(21/2+3/4)}] is equal to:

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

Q62. An article is sold at a certain price. If it is sold at 33 1/3 % of this price, there is a loss of 33 1/3 %, 'What is the percentage profit or percentage loss when it is sold at 40% of the original selling price?

(a) Profit 18%
(b) Loss 12%
(c) Loss 20%
(d) Profit 15%

Q63. If x + 1over 15x = 3, then the value of $9x^3+1/(375x^3)$ will be:

(a) 237.6
(b) 376.2
(c) 273.6
(d) 367.2

Q64. If $x^6 - 6\sqrt{6}y^6 = (x^2 + Ay^2)(x^4 + Bx^2y^2 + Cy^4)$, then what will be the value of $(A^2 - B^2 + C^2)$?

(a) 18
(b) 36
(c) 27
(d) 42

Q65. Let O be the centre of a circle and AC be the diameter. BD is a chord intersecting AC at E. AD and AB are joined. If angle BOC = 40° and angle AOD = 120°, then angle BEC is equal to

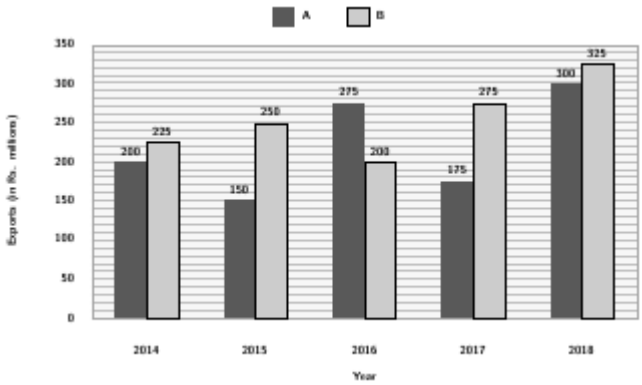
(a) 70°
(b) 80°
(c) 90°
(d) 55°

Q66. There are 3 groups of persons - male, female and children. There are 20 males and the number of females and children taken together is 4 more than that of the males. The average weight of males is 54 kg, that of females is 49 kg and that of children is 30 kg. If the average weight of the whole group is 48.25 kg, then what is the difference between the number of females and the number of children?

(a) 14
(b) 17
(c) 7
(d) 10

Q67. Study the given bar graph and answer the question that follows.

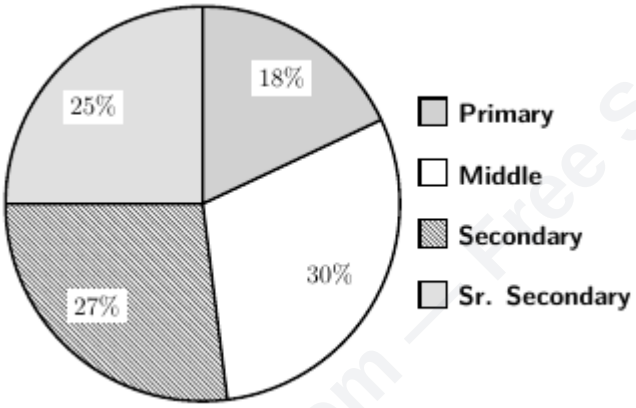
The bar graph shows the exports of cars of types A and B (in Rs. million).



What is the ratio of the total exports of cars of type A in 2016 and 2018 to the total exports of cars of type B in 2015 and 2017?

(a) 15 : 29
(b) 21 : 23
(c) 23 : 21
(d) 18 : 23

Q68. Students of Primary, Middle, Secondary, and Sr. Secondary classes collected donations for a Relief Fund as shown in the given pie chart. If the donation collected from the Middle classes was Rs. 6,750, then how much more money was collected by the Middle classes as compared to the Secondary classes?



(a) Rs. 6,075
(b) Rs. 675
(c) Rs. 1,125
(d) Rs. 2025

Q69. ABC is a triangle inscribed in a circle and angle ACB is equal to 35°. P is a point on the circle on the side AB, opposite to C. What is the value of angle APB in degrees?

(a) 145
(b) 70
(c) 175
(d) 72.5

Q70. If $\tan\theta = 4/3$, then the value of $(9\sin\theta+12\cos\theta)/(27\cos\theta-20\sin\theta)$ will be equal to:

(a) 72
(b) 36
(c) 100
(d) 18

Q71. In Δ ABC, points D and E are on AB and AC, respectively, such that DE is parallel to BC. If AD = 3 cm, BD = 6 cm and AE = 2 cm, then find the length of CE.

(a) 16 cm
(b) 8 cm
(c) 6 cm
(d) 4 cm

Q72. Evaluate the following expression.

$(3(\cot^2 46°-\sec^2 44°))/(2(\sin^2 28°+\sin^2 62°))+(2\cos^2 60°\tan^2 33°\tan^2 57°)/(\sec^2(90-\theta)-\cot^2\theta)$

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

Q73. For $\theta : 0° < \theta < 90°$

$3\sec\theta + 4\cos\theta = 4\sqrt{3}$, find the value of $(1 - \sin\theta + \cos\theta)$.

(a) $(1-2\sqrt{3})/2$
(b) $(1+\sqrt{3})/2$
(c) $(1+2\sqrt{3})/2$
(d) $(1-\sqrt{3})/2$

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Q74. A solid metallic sphere of radius 10 cm is melted and recast into spheres of radius 2 cm each. How many such spheres can be made?

(a) 100
(b) 125
(c) 64
(d) 216

Q75. Sunil can row a boat 20 km upstream in 1 hour and 15 minutes. If the speed of the current of the river is 2 km/h, then how much time will he take to row the boat 30 km downstream?

(a) 1 h 10 m
(b) 1 h 30 m
(c) 1 h 20 m
(d) 1 h 45 m

GENERAL AWARENESS

Q76. Which of the following months was celebrated as 'Nutrition Month' in India in the year 2020?

(a) August
(b) December
(c) September
(d) November

Q77. Who among the following Indian cricketers holds the record of most number of catches taken by a non-wicket keeper while standing in the slip cordon, as of January 2021?

(a) Javagal Srinath
(b) Rahul Dravid
(c) Manoj Prabhakar
(d) VVS Laxman

Q78. Where was the first factory of the Indian Iron and Steel Company (IISCO) set up?

(a) Jabalpur
(b) Jamshedpur
(c) Hirapur
(d) Durgapur

Q79. Where was the world's largest solar tree installed in India in 2020?

(a) Bhopal
(b) Jaipur
(c) Durgapur
(d) Bokaro

Q80. Who among the following is the youngest mayor in India as of January 2021?

(a) Mekala Kavya
(b) Rekha Priyadarshini
(c) Sabitha Beegam
(d) Arya Rajendran

Q81. Which of the following states emerged as a separate state in 1963?

(a) Tripura
(b) Mizoram
(c) Nagaland
(d) Arunachal Pradesh

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Q82. Which of the following is the state flower of Manipur?

(a) Retusa
(b) Foxtail Orchids
(c) Shirui Lily
(d) Pink Rhododendron

Q83. Which of the following keys will you press in Windows 10 to turn the volume up?

(a) F4
(b) F5
(c) F8
(d) F6

Q84. Who among the following was a Portuguese writer who wrote about the trade and society in south India?

(a) Niccolao Manucci
(b) Jean-Baptiste Tavernier
(c) Duarte Barbosa
(d) Francois Bernier

Q85. Which of the following places in India has 0% forest area as per the Indian State of Forest Report 2019?

(a) Puducherry
(b) Lakshadweep
(c) Goa
(d) Andaman and Nicobar Islands

Q86. Chemicals called _____ link to form proteins.

(a) citric acids
(b) oxalic acids
(c) nitric acids
(d) amino acids

Q87. In which of the following cities was the 89th Annual General Meeting of the Board of Control for Cricket in India held?

(a) Ahmedabad
(b) Lucknow
(c) Indore
(d) Nagpur

Q88. Which of the following states has the longest roadway network as on March 2021?

(a) Madhya Pradesh
(b) Rajasthan
(c) Gujarat
(d) Maharashtra

Q89. When was the Editors Guild of India founded?

(a) 1956
(b) 1978
(c) 1982
(d) 1989

Q90. 'Nikshay Poshan Yojana' is a scheme introduced by the Government of India to provide nutritional support to _____ patients.

(a) tuberculosis
(b) cancer
(c) diabetes
(d) arthritis

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Q91. Who among the following athletes was the first ever youth ambassador of United Nations International Children's Emergency Fund (UNICEF) India?

(a) Hima Das
(b) Dutee Chand
(c) KT Irfan
(d) Neeraj Chopra

Q92. Who among the following was awarded the International Children's Peace Prize 2020?

(a) Malala Yousafzai
(b) Greta Thunberg
(c) Sadat Rahman
(d) Neha Gupta

Q93. 'Rahide' is a long scarf worn by the women of _____ to protect their head from cool breeze as well as to show their traditional social affinity.

(a) Uttar Pradesh
(b) Arunachal Pradesh
(c) Himachal Pradesh
(d) Madhya Pradesh

Q94. Which of the following Articles of the Constitution of India mentions 'Continuance of the rights of citizenship'?

(a) Article 9
(b) Article 12
(c) Article 11
(d) Article 10

Q95. Who among the following introduced the concept of electric field for the first time?

(a) Blaise Pascal
(b) Michael Faraday
(c) Charles Augustin de Coulomb
(d) Joseph Henry

Q96. Which present day Indian state came into existence as the Mysore state in 1953?

(a) Andhra Pradesh
(b) Kerala
(c) Tamil Nadu
(d) Karnataka

Q97. Which of the following has a tetragonal crystal system?

(a) Potassium nitrate
(b) Cadmium sulphide
(c) Calcium sulphate
(d) Zinc oxide

Q98. Which part of India did the Nizams of Asafjahi dynasty rule?

(a) Western kingdoms
(b) Northern India
(c) Deccan provinces
(d) Eastern states

Q99. Which of the following types of computer is used in climate research and weather forecasting?

(a) Mini-computers
(b) Micro-computers
(c) Supercomputers
(d) Mainframe computers

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Q100. 'Maand' is primarily a traditional folk singing style from _____.

(a) Madhya Pradesh
(b) Bihar
(c) Jharkhand
(d) Rajasthan

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) fare

The solution is in Hindi. Read it online.

Q2. Answer: (d) misrable

The solution is in Hindi. Read it online.

Q3. Answer: (a) fluctuated

The solution is in Hindi. Read it online.

Q4. Answer: (b) been sitting

The solution is in Hindi. Read it online.

Q5. Answer: (c) yet living

The solution is in Hindi. Read it online.

Q6. Answer: (a) Oppose

The solution is in Hindi. Read it online.

Q7. Answer: (b) No substitution required

The solution is in Hindi. Read it online.

Q8. Answer: (c) bridle

The solution is in Hindi. Read it online.

Q9. Answer: (b) Mother said that all the guests would arrive that night

The solution is in Hindi. Read it online.

Q10. Answer: (d) DACB

The solution is in Hindi. Read it online.

Q11. Answer: (c) Ordinary workers in a company

The solution is in Hindi. Read it online.

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Q12. Answer: (b) Abundant

The solution is in Hindi. Read it online.

Q13. Answer: (a) The sun was hidden by the clouds.

The correct answer is - 'The sun was hidden by the clouds.'

Key Points

• The given sentence is in the Active voice, hence we need to convert it into the Passive voice.

• In the given sentence, the subject is 'The clouds' and the object is 'the sun' so for making the passive form of this sentence, we need to exchange the places of the object and subject.

• We need to follow these instructions while changing the active voice into the passive voice.

• The preposition 'by' will be used in the sentence.

• The objective case 'the sun' will be used as a subject form and it will take a singular verb.

• The subjective case 'The clouds' will be used as an object.

• In the given question which is in a form of the simple past, we follow this structure.

• Active form: Sub + V2 + object

• Passive form: Object+ was/were + V3+ by + subject

• So following these steps we finally get.

The correct passive form is - The sun was hidden by the clouds.

Q14. Answer: (a) Insert

The solution is in Hindi. Read it online.

Q15. Answer: (b) BACD

The solution is in Hindi. Read it online.

Q16. Answer: (c) Rinckle

The solution is in Hindi. Read it online.

Q17. Answer: (c) The Prime Minister chair a high-level meeting

The solution is in Hindi. Read it online.

Q18. Answer: (b) forever

The solution is in Hindi. Read it online.

Q19. Answer: (c) Aviary

The solution is in Hindi. Read it online.

Q20. Answer: (a) desert

The solution is in Hindi. Read it online.

Q21. Answer: (a) lies

The solution is in Hindi. Read it online.

Q22. Answer: (a) purely

The solution is in Hindi. Read it online.

Q23. Answer: (a) choose

The solution is in Hindi. Read it online.

Q24. Answer: (c) designed

The solution is in Hindi. Read it online.

Q25. Answer: (d) associated

The solution is in Hindi. Read it online.

Q26. Answer: (b) [figure]

Given:

The logic followed here is:

(1) The arrow in the center rotates 90° in the anticlockwise direction in each step.

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(2) Corner symbols rotate 90° in clockwise direction in each step.

• Outer symbols are changing according to the pattern shown below:

Hence, option (2) is the correct answer.

Q27. Answer: (b) Grandson

From the given information,

If Raman is the brother of the son of Kshitij's son, implies Raman is the grandson of Kshitij, as shown below,

Hence, Raman is the grandson of Kshitij.

Q28. Answer: (b) 16421163619

Given: FORTUNE is written as 716192122156.

The logic followed here is: adding 1 to the positional values of the letters, as shown below,

Similarly,

Hence, 16421163619 is the correct answer.

Q29. Answer: (c) Both conclusions I and II follow.

The least possible diagram is as follows:

Conclusions:

I. All computers are boxes → True (as all computers are calculators, and all calculators are boxes, so all computers are boxes too)

II. Some boxes are computers → True (as all computers are calculators, and all calculators are boxes, so part of calculators that are boxes are computers too)

Hence, both conclusions I and II follow.

Q30. Answer: (a) 1, 3, 4, 5, 2

The logical order is:

1. Universe → It contains everything.

3. World → World is in Universe.

4. Asia → Asia is in the World.

5. Tamil Nadu → Tamil Nadu is a state in Asia.

2. Chennai → Chennai is the capital of Tamil Nadu.

Hence, 1, 3, 4, 5, 2 is the correct order.

Q31. Answer: (c) [figure]

Given:

The logic followed here is:

Detailed Explanation:

• The line AB is the mirror

• The given word "GRS?@915" ends with '5'. So the mirror image will start with "

" => Option 2 and 4 are eliminated.

• The given word "GRS?@915" has the second last digit "1", So the mirror image should be "

" => Option 1 is eliminated.

Hence, option (3) is the correct answer.

Q32. Answer: (c) adedabd

Given: a _ bcd _ _ aabc _ dea _ _ cd _ e

By checking options and substituting accordingly,

(1) dabdade → a d b c d a b / a a b c d d e / a a d c d e e

(2) adabded → a a b c d d a / a a b c b d e / a d e c d d e

(3) adedabd → a a b c d d e / a a b c d d e / a a b c d d e

♦ Here a a b c d d e is repeated.

(4) adebdda → a a b c d d e / a a b c b d e / a d d c d a e

♦ Option (3) gives a pattern of a a b c d d e - a a b c d d e - a a b c d d e.

Hence, adedabd is the correct answer.

Q33. Answer: (b) (9, 5, 56)

Given: (7, 4, 33)

The logic followed here is:

(7, 4, 33) → 7 + 4 = 11, 7 - 4 = 3 → 11 × 3 = 33

By checking options:

(9, 5, 56) → 9 + 5 = 14, 9 - 5 = 4 → 14 × 4 = 56

Hence, (9, 5, 56) is the correct answer.

Q34. Answer: (c) 48 : 52 : 55

The logic followed here is:

2^(nd) number = 1^(st) number + (Subtraction of digits of 1st number)

3^(rd) number = 2^(nd) number + (Subtraction of digits of 2nd number)

29 : 36 : 39

Second number = 29 + (9 - 2) = 29 + 7 = 36

Third number = 36 + (6 - 3) = 36 + 3 = 39

Similarly,

48 : 52 : 55

Second number = 48 + (8 - 4) = 48 + 4 = 52

Third number = 52 + (5 - 2) = 52 + 3 = 55

Hence, the correct answer is "Option 3".

Q35. Answer: (c) AHKRLLAM

Given: DEBONAIR : EDRIOBAN :: HALLMARK : ?

The logic followed here is:

Similarly,

Hence, AHKRLLAM is the correct answer.

Q36. Answer: (a) 5 and 2

Given: 75 ÷ 18 + 51 × 8 − 82 = 87

By checking options and substituting accordingly,

(1) 5 and 2 → 72 ÷ 18 + 21 × 8 − 85

= 4 + 21 × 8 − 85

= 4 + 168 - 85

= 172 - 85

= 87

LHS = RHS

(2) 8 and 2 → 75 ÷ 12 + 51 × 2 − 28

= 6.25 + 51 × 2 − 28

= 6.25 + 102 - 28

= 108.25 - 28

= 80.25

≠ 87

LHR ≠ RHS

(3) 7 and 8 → 85 ÷ 17 + 51 × 7 − 72

= 5 + 51 × 7 − 72

= 5 + 357 - 72

= 362 - 72

= 290

≠ 87

LHR ≠ RHS

(4) 1 and 5 → 71 ÷ 58 + 15 × 8 − 82

= 1.22 + 15 × 8 − 82

= 1.22 + 120 - 82

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= 121.22 - 82

= 39.22

≠ 87

LHR ≠ RHS

Hence, 5 and 2 is the correct answer.

Q37. Answer: (d) RMHGIFXG

Given: ENDORSE is written as VMWLIHV

The logic followed here is: reverse letters according to the English dictionary, as shown below,

Similarly,

Hence, "RMHGIFXG" is the correct answer.

Q38. Answer: (d) 20

Given: Vishal has a total of Rs. 4,100 in the denominations of 5, 10, 20 and 50 rupee notes. He has an equal number of 5 and 10 rupee notes. The number of 20 rupee notes is double the number of 5 rupee notes. The number of 50 rupee notes is thrice the number of 10 rupee notes.

Let the number of 5 and 10 rupee notes be 'x',

implies,

The number of 20 rupee notes is '2x',

and,

The number of 50 rupee notes is '3x'.

Then, according to the question,

5(x) + 10(x) + 20(2x) + 50(3x) = 4100

5x + 10x + 40x + 150x = 4100

205x = 4100

x = 4100 ÷ 205

x = 20

Hence, there are 20 notes of 5 rupee.

Q39. Answer: (a) [figure]

Given:

The logic followed here is: only option (1) is embedded as shown below,

Hence, option (1) is the correct answer.

Important Points

• Do not get tensed by the complexity of the figures.

• Carefully understand the structure of the given question figure.

• The embedded figure may not be of exact size. It may be small or big.

• Sometimes the rotation or reflection of the figures may be confusing.

• So think wisely before selecting the answer.

Q40. Answer: (d) 7

By counting triangles:

Hence, 7 is the correct answer.

Q41. Answer: (c) Cushion

Given: Bed : Mattress : : Chair : ?

Mattress is for Bed.

Similarly,

Cushion is for Chair.

Hence, cushion is the correct answer.

Additional Information

• A cushion is a soft bag of some ornamental material, usually stuffed with wool, hair, feathers, polyester staple fiber, non-woven material, or even paper torn into fragments

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Q42. Answer: (a) Chandigarh

By checking options:

The logic followed here is:

All of Delhi, Puducherry, Chandigarh, Jammu & Kashmir are Union Territories.

Whereas,

Chandigarh does not have a legislative assembly.

Hence, Chandigarh is the odd one.

Q43. Answer: (a) [figure]

The logic followed here is:

The paper when unfolded will look like this:

Hence, option (1) is the correct answer.

Q44. Answer: (c) 120

Given: 8, 24, 48, 80, ?, 168

The logic followed here is:

Hence, "120" is the correct answer.

Q45. Answer: (c) KMQT

By checking options:

(1) ACFJ

(2) LNQU

(3) KMQT

(4) QSVZ

Hence, KMQT is the odd one.

Q46. Answer: (c) [figure]

Given: Engineers, Educated Persons, Males

The logic followed here is:

All engineers are educated people, some engineers are males, and some educated people are males, as shown below:

Hence, option (3) is the correct answer.

Q47. Answer: (b) 66

The logic followed here is:

(First number - 1)² + 2 = Second number

6 : 27 → (6 - 1)² + 2 = 5² + 2 = 27

Similarly,

9 : ? → (9 - 1)²+ 2 = 8²+ 2 = 66

Hence, 66 is the correct answer.

Q48. Answer: (d) 13 : 169

By checking options:

(1) 11 : 123 → 11² + 2 = 121 + 2 = 123

(2) 17 : 291 → 17² + 2 = 289 + 2 = 291

(3) 15 : 227 → 15² + 2 = 225 + 2 = 227

(4) 13 : 169 → 13² + 2 = 169 + 2 = 171 ≠ 169

Hence, 13 : 169 is the odd one.

Q49. Answer: (b) Urge : Request

Given:

The logic followed here is:

Growth is the synonym of Expansion.

Similarly,

Urge is the synonym of Request.

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Hence, urge : request is the correct answer.

Q50. Answer: (c) 1

Given:

Logic: If two dice have the same face value in the given image on two of their faces then the third face of each dice is opposite to one another.

Thus, from the common face (6) and (5) from both the dice:

Now, 1 is opposite to 2, thus '1' will be on the face opposite to the face showing the letter '2'.

Hence, 1 is the correct answer.

Q51. Answer: (b) -4(3x+4/(x³))

Given:

$(x-2/x)^3-(x+2/x)^3$

Concept used:

$a^3- b^3 = (a - b)(a^2 + ab + b^2)$

Calculation:

Let $(x-2/x)^3-(x+2/x)^3$ be a3 - b3

Now,

$(x-2/x)-(x+2/x)[(x-2/x)^2 + (x+2/x)^2 + (x+2/x) (x-2/x)]$

$=> - 4/x[x^2 + 4/x^2- 4 + x2 + 4/x2 + 4 + x2 - 4/x2]$

$=> - 4/x[3x2 + 4/x2]$

$=> - 4[3x + 4/x^3]$

Therefore Required answer is - 4[3x + 4/x3]

Q52. Answer: (a) 10 : 9

Given:

Nalini's younger brother is 12 years old

Let Nalini Age be X

Ratio of their age = 7 : 6

Calculation:

X : 12 = 7: 6

X = 14

So Nalini's age is 14 years.

Now after 6 years, their ages will be

Nalini :14+ 6 = 20

Younger Brother: 12 + 6 = 18

So, ratio = 20 : 18

10: 9

Therefore The required ratio is 10: 9

Q53. Answer: (a) 91/11

Given:

10 men or 15 women can complete a work in 30 days

Calculation:

Let the new time be x days

Now,

10M × 30 = 15W × 30

=> 300M = 450W

=> 2M = 3W

Total work = 10 × 30 = 300 units

Now 15M and 27W = 15M and 18M [Converted women into men]

So, time = 300/33 = 100/11 days or 91/11 days

Therefore The required time is 91/11 days

Q54. Answer: (c) 262/3

Shortcut Trick

Let initial Income = 100, which means Savings = 25 and Expenditure = 75.

New Income = 120 (increased by 20%) and Savings = 25 (remains constant).

New Expenditure = 120 − 25 = 95.

Increase in Expenditure = 95 − 75 = 20.

Percentage Increase = (20 ÷ 75) × 100 = 26 ²/3%.

Therefore The correct answer is 26 ²/3%.

Alternate Method

Given:

A person saves 25% of his income.

Income increases by 20% while savings remain the same.

Formula Used:

Income = Expenditure + Savings

Percentage Increase = (Increase in Value ÷ Original Value) × 100

Initial Income = 100 Exp = 75 Sav = 25 New Income = 120 (+20%) Exp = 95 Sav = 25 + 20 % Increase = (20 ÷ 75) × 100 ≈ 26.66%

Calculations:

=> Let the initial income be 100 units.

=> Initial saving = 25% of 100 = 25 units

=> Initial expenditure = 100 − 25 = 75 units

=> After a 20% increase, the new income = 100 + 20% of 100 = 120 units

=> New saving = 25 units (as it remains the same)

=> New expenditure = 120 − 25 = 95 units

=> Increase in expenditure = 95 − 75 = 20 units

=> Percentage increase in expenditure = (20 ÷ 75) × 100

=> Percentage increase = (4 ÷ 15) × 100 = 80 ÷ 3 = 26 ²/3%

Therefore The correct answer is 26 ²/3%.

Additional Information

Income-Expenditure Concept

The foundational equation is Income = Expenditure + Savings. Any change in income will exactly equal the sum of changes in expenditure and savings.

Constant Variable Effect

If savings remain constant, the entire absolute increase in income directly translates to the absolute increase in expenditure.

Percentage Change Formula

Percentage change is always calculated based on the initial value: % Change = [(Final − Initial) ÷ Initial] × 100.

Q55. Answer: (a) 15

Given:

A seven-digit number 23k567k is divisible by 3

Concept used:

Divisibility rule of 3 → If the sum of all digits of a number is divisible by 3

Calculation:

2 + 3 + k + 5 + 6 + 7 + k = 23 + 2k

Now, 23 + 2k is divisible by 3

So, the Nearest numbers which is divisible by 3 = 24, 27, 30, 33, 36, 39

Now, 2k ≠ 1, 7, 13

k ≤ 9

So, possible values of 2k = 4, 10, 16

So, the sum of all the values of 2k = 30

So, k = 15

Therefore The required answer is 15

Q56. Answer: (b) 9 : 11

Given:

AD is the internal bisector of angle A meeting BC at D

BD = 3.6 cm and BC = 8 cm

Concept used:

In ΔABC, if AD is the internal bisector of angle A meeting BC at D, then AB/AC = BD/DC

Calculation:

DC = BC – BD

=> DC = 8 – 3.6 = 4.4

In the above figure, AD is the angle bisector of angle A

So, AB/AC = BD/DC

=> AB/AC = 3.6/4.4

=> AB : AC = 3.6 : 4.4 = 9 : 11

Therefore The ratio of AB to AC will be 9 : 11

Q57. Answer: (c) 400

Given:

Selling price = Rs. 425

Discount = 15%

And Profit % = 25%

Formula used:

Selling price(SP) = {(100 + Profit %)/100} × Cost price(CP)

Selling price = Marked price - Discount

Calculation:

Discount = 15% = 3/20

Let the market price be 20x And discount be 3x

SP = 20x - 3x = 17x

According to the question,

we get 17x = Rs. 425

=> x = 425/17 = Rs. 25

Now, Market price = 20x = 20 × 25 = Rs. 500

If MP = SP

=> CP × (125/100) = 500

CP = Rs. 400

Therefore The cost price of the article is Rs. 400.

Q58. Answer: (b) 38.75%

Calculation:

Expenditure in 2014 = 225

Expenditure in 2016 = 330

Expenditure in 2018 = 180

Total expenditure = 735

Average = 245

Revenue in 2017 = 400

Difference = 400 - 245 = 155

% = (155/400) × 100 = 38.75%

Therefore Required answer is 38.75%

Q59. Answer: (c) Rs. 3,972

Given:

Principal= Rs. 12000

Time = 5 years

S.I = 6000

Concept used:
SI = Prt/100
Amount = P × {1 + (R/100)}^N
C.I = Amount - Principal
Calculation:
Let the rate of interest be x%
So, 6000 = (12000 × x × 5)/100
6000 = 60000x/100
6000 = 600x
x = 10
Now,
Amount = 12000 × 11/10 × 11/10 × 11/10
15972
So, C.I = 15972 - 12000
3972
Therefore The required compound interest is Rs. 3972

Q60. Answer: (b) 89 : 65

Calculation:
Total students in science stream from school A, B, and D = 60 + 78 + 40
=> 178
Total students in vocational stream from school B, D, and E = 40 + 40 + 50
=> 130
Ratio = 178 : 130
=> 89 : 65
Therefore Required ratio is 89 : 65

Q61. Answer: (b) 5

Given:
161/4÷[21/6+{41/3-(21/2+3/4)}]
Concept used:
Calculation:
161/4÷[21/6+{41/3-(21/2+3/4)}]
=> 65/4 ÷ [13/6 + {13/3 - (5/2 + 3/4)}]
=> 65/4 ÷ [13/6 + {13/3 - (10/4 + 3/4)}]
=> 65/4 ÷ [13/6 + {13/3 - 13/4}]
=> 65/4 ÷ [13/6 + {52/12 - 39/12}]
=> 65/4 ÷ [13/6 + 13/12]
=> 65/4 ÷ [26/12 + 13/12]
=> 65/4 ÷ 39/12
=> 65/4 × 12/39
=> 5
Therefore Required answer is 5

Q62. Answer: (c) Loss 20%

Shortcut Trick
Let Original Selling Price (SP) = 300 units.
New SP = 331⁄3% of 300 = 100 units.
Loss of 331⁄3% means SP is 2/3 of CP => 2/3 × CP = 100 => CP = 150 units.
Selling at 40% of Original SP = 40% of 300 = 120 units.
Loss % = (150 − 120) ÷ 150 × 100 = 20%.
Therefore The correct answer is Loss 20%.
Alternate Method

Given:

Selling price at 1st condition = 331⁄3% of original selling price

Loss at 1st condition = 331⁄3%

Selling price at 2nd condition = 40% of original selling price

Formula Used:

Loss = Cost Price (CP) − Selling Price (SP)

Loss % = (Loss ÷ CP) × 100

Calculations:

=> Let Original Selling Price = SP and Cost Price = CP

=> Selling price in 1st condition = 331⁄3% of SP = SP ÷ 3

=> Loss % in 1st condition = 331⁄3% = 1/3

=> SP ÷ 3 = CP − (1/3 × CP)

=> SP ÷ 3 = 2/3 × CP

=> SP = 2 × CP

=> Selling Price in 2nd condition = 40% of SP = 0.4 × (2 × CP) = 0.8 × CP

=> Since New SP is less than CP, there is a loss.

=> Loss = CP − 0.8 × CP = 0.2 × CP

=> Percentage Loss = (0.2 × CP ÷ CP) × 100 = 20%

Therefore The correct answer is Loss 20%.

Additional Information

Cost Price & Selling Price

Profit occurs when Selling Price > Cost Price (Profit = SP − CP). Loss occurs when Cost Price > Selling Price (Loss = CP − SP).

Profit and Loss Percentage

Both profit and loss percentages are always calculated on the Cost Price unless stated otherwise. Formula: Profit/Loss % = (Profit or Loss ÷ CP) × 100.

Fractional Equivalents

Converting percentages to fractions speeds up calculations. For example, 331⁄3% = 1/3, 20% = 1/5, and 40% = 2/5.

Q63. Answer: (a) 237.6

Given:

x + 1over 15x = 3

Concept used:

$a^3 + b^3 = (a + b)^3 - 3ab(a + b)$

Calculation:

x + 1over 15x = 3

=> 3x + 1over 5x = 9

Now,

$27x^3 + 1/125x^3 = 9^3 - (3.3x.1/5x)(9)$

=> 27x3 + 1/125x3 = 729 - 81/5

=> 27x3 + 1/125x3 = 729 - 16.2

=> 27x3 + 1/125x3 = 712.8

=> 9x3 + 1/375x3 = (712.8)/3

=> 9x3 + 1/375x3 = 237.6

Therefore The required answer is 237.6

Q64. Answer: (b) 36

Given:

$x^6 - 6\sqrt{6}y^6 = (x^2 + Ay^2)(x^4 + Bx^2y^2 + Cy^4)$

Concept used:

$x^3 - y^3 = (x - y)(x^2 + xy + y^2)$

Calculation:

$x^6 - 6\sqrt{6}y^6 = (x^2 + Ay^2)(x^4 + Bx^2y^2 + Cy^4)$

=> $(x^2)^3 - (\sqrt{6}y^2)^3 = (x^2 + Ay^2)(x^4 + Bx^2y^2 + Cy^4)$

=> $(x^2 - \sqrt{6}y^2)(x^4 + x^2 \times \sqrt{6}y^2 + 6y^4) = (x^2 + Ay^2)(x^4 + Bx^2y^2 + Cy^4)$

Comparing both sides of the equation we get-

$A = -\sqrt{6}$, $B = \sqrt{6}$, $C = 6$

So, $(A^2 - B^2 + C^2) = 6 - 6 + 6^2 = 36$

Therefore The value of $(A^2 - B^2 + C^2)$ is 36.

Q65. Answer: (b) 80°

Given:

AC is diameter and BD is a chord.

angle BOC = 40° and angle AOD = 120°

Concept Used:

The angle made by an arc on the centre is always two times the angle made by the same arc on the circumference of a circle.

Calculation:

Join B to C

Given angle BOC = 40° so, angle BOA = (180 - 40) = 140°

Again, from the arc AB angle at centre O = 140° so, from the same arc AB angle on the circumference = 140/2 = 70°

Now, angle DOC = 360 - (40 + 140 + 120) = 360 – 300 = 60°

So, from arc DC angle at centre O = 60° then angle at circumference i.e angle DBC = 60/2 = 30°

Now, angle BEC = (180 – (70 + 30)) = 80°

Therefore angle BEC is equal to 80°

Q66. Answer: (d) 10

Given:

No of males = 20

The number of females and children is 4 more than that of males.

The average weight of males is 54 kg

The average weight of females is 49 kg

The average weight of children is 30 kg

The average weight of the whole group is 48.25 kg

Concept used:

Average = Sum of Observations/ Number of Observations

Calculation:

Number of Females + Children = 20 + 4 = 24

Let the number of females is x and the number of children be 24 – x

So total persons = 20 + 24 = 44

A/Q-

$44 \times 48.25 = 20 \times 54 + 49 \times x + (24 - x) \times 30$

=> 2123 = 1080 + 49x + 720 – 30x

=> 19x = 2123 – 1800

=> x = 17

So, Number of females = 17 and number of children = 24 - 17 = 7

The required difference is 17 - 7 = 10

Therefore The required difference is 10.

Q67. Answer: (c) 23 : 21

Calculation:

Total exports of cars of type A in 2016 and 2018 = 275 + 300 = 575

Total exports of cars of type B in 2015 and 2017 = 250 + 275 = 525

Their Ratio = 575 : 525 = 23 : 21

Therefore The required ratio is 23 : 21

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Q68. Answer: (b) Rs. 675

Calculation:

Let total relief fund for all the students be 100x

Fund for Middle Class = 30% of 100x = 30x

Fund for Secondary Class = 27% of 100x = 27x

Difference between Middle Class and Secondary Class = 3x

A/Q-

30x = 6750

=> 3x = 675

Therefore Rs 675 was collected more by the Middle classes as compared to the Secondary classes

Q69. Answer: (a) 145

Given:

ABC is a triangle inscribed in a circle

ΔACB is equal to 35°

Concept used:

The sum of opposite angles of a cyclic Quadrilateral is always 180°

Calculation:

We will join the points BP and AP

In the above figure, APBC is a cyclic quadrilateral.

So, angle APB + angle ACB = 180

=> angle APB = 180 - 35

=> angle APB = 145°

Therefore The value of angle APB is 145°

Q70. Answer: (a) 72

Given:

$\tan\theta = 4/3$

Concept used:

$\tan\theta = p/b$, $\sin\theta = p/h$, $\cos\theta = b/h$

$h^2 = p^2 + b^2$

(where p = Perpendicular, b = Base, h = Hypotenuse)

Calculation:

$\tan\theta = 4/3$, So, p = 4 and b = 3

Now, $h^2 = 4^2 + 3^2 = 16 + 9 = 25$

=> $h^2 = 25$

=> h = 5

Now, $\sin\theta = 4/5$, $\cos\theta = 3/5$

So, $(9\sin\theta + 12\cos\theta)/(27\cos\theta – 20\sin\theta) = (9 \times 4/5 + 12 \times 3/5)/(27 \times 3/5 - 20 \times 4/5)$

$= (36/5 + 36/5)/(81/5 - 80/5)$

$= (72/5)/(1/5)$

= 72

Therefore The required value is 72

Shortcut Trick

$(9\sin\theta+12\cos\theta)/(27\cos\theta-20\sin\theta)$

Taking $\cos\theta$ as common from both numerator and denominator, we can write:

$(\cos\theta\sim (9\tan\theta+12))/(\cos\theta\sim (27-20\sim\tan\theta))=(9\tan\theta+12)/(27-20\sim\tan\theta)$

Putting $\tan\theta = 4/3$, we get the required answer of 72.

Q71. Answer: (d) 4 cm

Given:

DE is parallel to BC

AD = 3 cm, BD = 6 cm and AE = 2 cm

Concept:
If ΔABC and ΔDEF are similar, then AB/DE = BC/EF = CA/FD
Calculation:
In the above figure, ΔABC and ΔADE are similar as -
1. angle A is common
2. angle ADE = angle ABC(Because DE || BC)
So, AD/AB = AE/AC
=> 3/(3 + 6) = 2/(2 + CE)
=> 1/3 = 2/(2 + CE)
=> CE + 2 = 6
=> CE = 4 cm
Therefore The length of CE is 4 cm.

Q72. Answer: (d) -1

Given:
$(3(\cot^2 46°-\sec^2 44°))/(2(\sin^2 28°+\sin^2 62°))+(2\cos^2 60°\tan^2 33°\tan^2 57°)/(\sec^2(90-\theta)-\cot^2 \theta)$
Concept used:
Calculation:
$(3(\cot^2 46°-\sec^2 44°))/(2(\sin^2 28°+\sin^2 62°))+(2\cos^2 60°\tan^2 33°\tan^2 57°)/(\sec^2(90-\theta)-\cot^2 \theta)$
$=> (3(\cot^2 46°- \operatorname{cosec}^2 46°))/(2(\sin^2 28°+\cos^2 28°))+(2\cos^2 60°\tan^2 33°\cot^2 33°)/(\operatorname{cosec}^2\theta-\cot^2 \theta)$
$=> (-3)/2+(2\cos^2 60°\tan^2 33°1/(\tan^2 33°))/1$
$=> -3/2 + 2 \times (1/2)^2$
=> -3/2 + 1/2
=> -1
Therefore The required value is -1

Q73. Answer: (b) (1+√3)/2

Given:
$3\sec\theta + 4\cos\theta = 4\sqrt{3}$
Concept used:
$\sec\theta = 1/\cos\theta$
Calculation:
$3/\cos\theta + 4\cos\theta = 4\sqrt{3}$
$=> 3 + 4\cos^2\theta = 4\sqrt{3}\cos\theta$
$=> 4\cos^2\theta - 2\sqrt{3}\cos\theta - 2\sqrt{3}\cos\theta + 3 = 0$
$=> 2\cos\theta(2\cos\theta - \sqrt{3}) - \sqrt{3}(2\cos\theta - \sqrt{3}) = 0$
$=> (2\cos\theta - \sqrt{3})(2\cos\theta - \sqrt{3}) = 0$
So, $\cos\theta = \sqrt{3}/2$
$=> \theta = 30°$
Now,
$(1 – \sin\theta + \cos\theta) = 1 - \sin30 + \cos30$
$=> 1 - 1/2 + \sqrt{3}/2$
$=> (1+\sqrt{3})/2$
Therefore The required value is $(1+\sqrt{3})/2$
Shortcut Trick
We can try with different standard values of θ(30, 45, 60) in the given equation and get θ = 30

Q74. Answer: (b) 125

Given:
The radius of a solid metallic sphere = 10 cm
The radius of a smaller sphere = 2 cm
Concept used:
Volume of Sphere = $4/3\pi r^3$

Calculation:

Let the number of smaller spheres formed be n

=> 4/3 × π × 10^3 = n × 4/3 × π × 2^3

=> n = $(10/2)^3$

=> n = 125

Therefore 125 such spheres can be formed.

Q75. Answer: (b) 1 h 30 m

Shortcut Trick

Upstream speed = 20 ÷ 1.25 = 16 km/h (Since 1 h 15 m = 1.25 h)

Boat speed in still water = Upstream speed + Current speed = 16 + 2 = 18 km/h

Downstream speed = Boat speed + Current speed = 18 + 2 = 20 km/h

Time downstream = Distance ÷ Downstream speed = 30 ÷ 20 = 1.5 hours

1.5 hours = 1 hour 30 minutes

Therefore The correct answer is 1 h 30 m.

Alternate Method

Given:

Upstream Distance = 20 km

Upstream Time = 1 hour 15 minutes = 1 + 15/60 = 5/4 hours

Speed of Current (v) = 2 km/h

Formula Used:

Speed = Distance ÷ Time

Upstream Speed (U) = u − v

Downstream Speed (D) = u + v

(where u is the speed of boat in still water and v is the speed of current)

Calculations:

=> Upstream speed (U) = 20 ÷ (5/4) = 20 × 4/5 = 16 km/h

=> u − v = 16

=> u − 2 = 16

=> u = 18 km/h (Speed of Sunil in still water)

=> Downstream speed (D) = u + v = 18 + 2 = 20 km/h

=> Time to row 30 km downstream = 30 ÷ 20 = 1.5 hours

=> 1.5 hours = 1 hour + (0.5 × 60) minutes = 1 hour 30 minutes

Therefore The correct answer is 1 h 30 m.

Additional Information

Speed of boat in still water (u)

It is the average of downstream and upstream speeds: u = (D + U) ÷ 2.

Speed of current/stream (v)

It is half the difference between downstream and upstream speeds: v = (D − U) ÷ 2.

Time, Speed, and Distance relation

Time = Distance ÷ Speed. For constant distance, speed is inversely proportional to time.

Q76. Answer: (c) September

The correct answer is September.

Key Points

• Nutrition Month:

• It was celebrated to promote nutrition among Women and Children.

• It is also called Rashtriya Poshan Maah.

• Rashtriya Poshan Maah was celebrated in September 2020.

• Poshan Maah is celebrated every year to encourage Jan Bhagidaari in order to ensure health and nutrition for everyone. Every year Poshan Maah is celebrated all over the country under POSHAN Abhiyaan, launched in 2018.

• The importance of Nutrition in our lives was emphasized by Prime Minister Shri Narendra Modi in his popular programme "Mann ki Baat on 30th August 2020.

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• PM Narendra Modi announced to celebrate September as a month of nutrition.

• In his Mann Ki Baat programme, he laid emphasis on creating awareness to fight malnutrition among children, particularly the girl child.

• Gujarat Government launched a pilot project, Poshan Abhiyan, last year, which is a statewide mission to eradicate malnutrition among children.

Q77. Answer: (b) Rahul Dravid

The correct answer is Rahul Dravid.

Key Points

• Rahul Dravid holds the record for the most number of catches (210) taken by a non-wicketkeeper. In the 509 matches he played for India, he took a total of 406 catches.

• Rahul Dravid:

• He holds the record of most catches in Test cricket by a non-wicket keeper and also the record of highest scoring partnership in Test cricket with Sachin Tendulkar(6520 runs).

• He is a former Indian cricketer who is often called 'Mr. Dependable and The Great Wall'.

• He made his international ODI debut on 3 April 1996 against Sri Lanka and his test debut on 20 June 1996 against England.

• He has been felicitated with national awards like Arjuna Award, Padma Shri, and Padma Vibhushan awards and was inducted into the ICC Hall of Fame in 2018.

Additional Information

• Javagal Srinath

• He is a former Indian Cricketer and currently an ICC match referee.

• He is the first Indian fast bowler to take more than 300 wickets in One Day Internationals.

• He is one of eleven bowlers who took 300 wickets in one-day international cricket, and the only Indian fast bowler to take 300 wickets.

• Manoj Prabhakar

• He is a former Indian Cricketer.

• He was a right-arm medium-pace bowler and a lower-order batsman.

• VVS Laxman

• He is a former Indian international cricketer and a Former cricket commentator.

• He is known for his elegant stroke play.

• He is currently the Head of Cricket at the National Cricket Academy (NCA), and the head coach of the India Under-19 and India A teams.

Q78. Answer: (c) Hirapur

The correct answer is Hirapur.

Key Points

• Indian Iron and Steel Company (IISCO)

• IISCO is an integrated steel plant located at Burnpur (now).

• It is a steel plant that is a part of the Steel Authority of India Limited (SAIL).

• It was established in 1918 as an Indian Iron and Steel Company under the flagship of the Martin Burn group.

• It was amalgamated with SAIL in 2006 and renamed IISCO Steel Plant.

• It has a crude steel production capacity of 2.5 million tonnes per year.

• SAIL is India's 3rd and the world's 20th largest steel-producing company with an annual production of 16.30 million metric tons respectively.

Important Points

• IISCO produced iron from an open-top blast furnace at Hirapur (later to be called Burnpur) in West Bengal for the first time in 1922.

• This full-fledged integrated steel plant is one of India’s oldest.

• The plant manufactures a range of products, over some of which it holds exclusive market dominance.

• Iron and steel produced by it have been acknowledged as being of the finest quality.

Q79. Answer: (c) Durgapur

The correct answer is Durgapur.

Key Points

• CSIR's Central Mechanical Engineering Research Institute have developed world's largest 'solar tree'.
• It is installed at its residential complex in Durgapur in West Bengal.
• It is to promote the usage of Solar energy.
• The solar tree has been designed in a manner to ensure maximum exposure of each solar photovoltaic (PV) panel to sunlight and also the creation of the least amount of shadow area beneath.
• The installed capacity of the Solar Tre is above 11.5 kWp.
• It has the annual capacity to generate 12,000-14,000 units of Clean and Green Power.
• There are a total of 35 Solar PV Panels in each tree with a capacity of 330 wp (watts peak) each.

Q80. Answer: (d) Arya Rajendran

The correct answer is Arya Rajendran.

Key Points

• Arya Rajendran, a member of the Communist Party of India(Marxist) became the youngest mayor in India at the age of 21.
• She became mayor of Thiruvananthpuram, Kerala's capital city.
• Mayor
• In India for all practical purposes, the municipal commissioner, a bureaucrat appointed by the state government, is the de facto head of the municipal body.
• Although the mayor is considered to be the political and executive head of the city, they hardly have any executive power.

Q81. Answer: (c) Nagaland

The correct answer is Nagaland.

Key Points

• Nagaland was formed on the 1st of December 1963.
• It was separated by Assam.

Additional Information

• Tripura
• Tripura was surrounded by Bangladesh on three sides.
• Tripura remained a Union Territory till 1972 when it became an independent state.
• Mizoram
• It got statehood on 20 February 1987.
• Initially, it was a district of Assam.
• In 1972 it was declared a Union Territory but Mizo National Front opposed it and later on it got full statehood.
• Arunachal Pradesh
• In 1972, it became a Union Territory and in 1987 became an independent state of India with Itanagar as its capital.

Q82. Answer: (c) Shirui Lily

The correct answer is Shirui Lily.

Key Points

• The Shirui Lily is a rare Indian species of plant found only in the upper reaches of the Shirui hill ranges in the Ukhrul district of Manipur, India.
• It is a seasonal flowering plant and at its best in May and June when it blooms.
• Manipur
• Capital: Imphal
• Chief Minister: N. Biren Singh (As of March 2022).
• Governor: La. Ganesan (As of March 2022).
• National Park: Keibul Lamjao National Park, Sirohi National Park
• State Animal: Manipuri Sangai
• State Tree: Uningthou
• State Bird: Nongyeen
• State Flower: Shirui Lily

Q83. Answer: (c) F8

The correct answer is F8.

Key Points

• We have to simultaneously press the Fn + F8 keys to increase the laptop volume on the keyboard.
• To turn down the volume, press the Fn + F7 keys at the same time.
• The mute volume keyboard shortcut is Fn + F6.

Additional Information

• The F4 opens the address bar in the File Explorer and most browsers, including Google Chrome and Microsoft Edge.
• F5's most common function is to refresh the current web page.

Q84. Answer: (c) Duarte Barbosa

The correct answer is Duarte Barbosa.

Key Points

• Duarte Barbosa
• He was a Portuguese writer and officer from Portuguese India.
• He was a Christian pastor and scrivener in a feitoria in Kochi.
• His Book of Duarte Barbosa is one of the earliest examples of Portuguese travel literature.

Additional Information

• Niccolao Manucci
• He was a Venetian writer, doctor, and traveller.
• He wrote a first-hand account of the Mughal Empire.
• He is famous for his work "Storia do Mogor", an account of Mughal history and life.
• Jean-Baptiste Tavernier
• He was a 17th-century French gem merchant and traveller.
• He is best known for his 1666 discovery or purchase of the 116-carat Tavernier Blue diamond.
• Francois Bernier
• He was a French physician and traveller.
• He wrote Travels in the Mughal Empire which is about the reigns of Dara Shikoh and Aurangzeb.

Q85. Answer: (b) Lakshadweep

The correct answer is Lakshadweep.

Key Points

• Indian State of Forest Report 2019
• India State of Forest Report 2019 is the 16th biennial assessment of India's forests by the Forest Survey of India.
• FSI undertakes the National Forest inventory to assess the growing stock in forests and TOF, bamboo resource, carbon stock and to assess the dependence of the people living in Forest Fringe Villages for fuelwood, fodder, small timber, and bamboo.
• The 2019 report for the first time has assessed the qualitative nature of the forest cover, including listing its biodiversity and the type of plants and trees found.
• It also created a national forest inventory for the first time on produce from forests.
• Forest Cover (ARea wise) : Madhya Pradesh> Arunachal Pradesh> Chhattisgarh> Odisha> Maharashtra.
• Forest Cover (Percentage): Mizoram (85.4%)> Aruncachal Pradesh(79.63%)> Meghalaya (76.33%).

Q86. Answer: (d) amino acids

The correct answer is amino acids.

Key Points

• Amino acids:
• Amino acids are molecules that combine to form proteins.
• It is the building block of life.
• The human body uses amino acids to make proteins to help the body break down food, grow, repair body tissue, perform many other body functions.

Additional Information

• Citric acids
• Citric Acid is present in Lime and Lemon.
• It is a weak organic acid.
• It is present in a variety of fruits and vegetables and is one of the stronger edible acids.
• It is also used as a flavouring and preservative in food and beverages.

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• Oxalic acids
• Many leafy green plants contain oxalic acid.
• Oxalate is another name of oxalic acid. •
• The essential nutrients like calcium and iron are absorbed by oxalic acid.
• In plants and plant-based foods, the concentration of oxalic acid is low.
• Oxalic acid is an organic compound.
• Nitric acids
• It is a highly corrosive mineral acid.
• The pure compound is colourless.
• It is commercially available nitric acid has a concentration of 68% in water.

Q87. Answer: (a) Ahmedabad

The correct answer is Ahmedabad.

Key Points

• The BCCI held its 89th Annual General Meeting on 24th December 2020 at Ahmedabad.
• Board of Control for Cricket in India(BCCI)
• It is the governing body for cricket in India and is under the jurisdiction of the Ministry of Youth Affairs and Sports, Government of India.
• Headquarters: Mumbai
• President: Sourav Ganguly (As of March 2022).
• Vice-President: Rajeev Shukla (As of March 2022).
• Secretary: Jay Shah (As of March 2022).
• Men's Cricket Team Coach: Rahul Dravid (As of March 2022).
• Women's Cricket Team Coach: Ramesh Powar (As of March 2022).

Q88. Answer: (d) Maharashtra

The correct answer is Maharashtra.

Key Points

• Maharashtra encompasses the largest roadway network of 247,652 km that is methodically planned and designed to provide the most convenient passenger road transport for the Indians.
• Maharashtra
• Chief Minister - Eknath Shinde (As of June 2022).
• Governor - Bhagat Singh Koshyari (As of June 2022).
• National bird - Yellow-footed green pigeon
• National animal - Indian giant squirrel
• National flower - Pride of India
• National tree - Mangifera Indica
• National parks - Chandoli National Park, Gugamal National Park, Nawegaon National Park, Sanjay Gandhi National Park, Tadoba National Park.
• Road Transport Minister - Nitin Gadkari (As of June 2022).

Q89. Answer: (b) 1978

The correct answer is 1978.

Key Points

• Editors Guild of India
• It is a non-profit organization of journalists.
• It was founded in 1978, by prominent journalist Kuldip Nayar.
• It represented Indian newspapers in communications to the government.
• Its objectives are protecting press freedom and raising the standards of editorial leadership of newspapers and magazines.
• President: Seema Mustafa (As of March 2022).

Additional Information

• World Press Freedom Day: 3 May

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Q90. Answer: (a) tuberculosis

The correct answer is tuberculosis.

Key Points

• NIKSHAY POSHAN YOJANA

• Nikshay Poshan Yojana is related to Tuberculosis.

• The Patient must be registered on the NIKSHAY Portal.

• The financial incentive of Rs. 500/- per month for each notified TB patient.

• NIKSHAY POSHAN YOJANA is a direct benefit transfer scheme.

• NIKSHAY POSHAN YOJANA is an initiative of the Ministry of Health and Family Welfare.

• The scheme is a centrally sponsored scheme.

Q91. Answer: (a) Hima Das

The correct answer is Hima Das.

Key Points

• Hima Das

• Hima Das is associated with track and field in athletics.

• She is from the state of Assam.

• She is also known as the Dhing Express.

• She is also appointed as a Deputy Superintendent Of Police (DSP) in Assam Police.

• She participates in events like 100m, 200m and 400m. She won Gold in the 2018 Jakarta Asian Games.

• She also won the Arjuna Award in 2018.

• Hima Das became the first Indian woman deed the first-ever Indian athlete to win a gold medal in any format of a global track event at IAAF World U20 Championships when she clocked a speed of 51.46 seconds.

• She was appointed as the first-ever Youth Ambassador by UNICEF India.

Additional Information

• UNICEF

• UNICEF- (United Nations International Children's Emergency Fund / United Nations Children's Fund).

• It was created by United Nations General Assembly on 11 Dec 1946.

• It is the successor of the International Children's Emergency Fund (ICEF) which was created in 1946 by the U.N. Relief Rehabilitation Administration with the prime objective of providing immediate relief to children and mothers affected by World War II.

• The primary objective of the agency is to provide humanitarian development aid to children worldwide.

• UNICEF is having more than 150 country offices across the globe & has a presence in 192 countries & Territories.

• President - Tore Hattram (As of March 2022).

Q92. Answer: (c) Sadat Rahman

The correct answer is Sadat Rahman.

Key Points

• Sadat Rahman from Bangladesh has been awarded the prestigious International Children's Peace Prize 2020.

• He was awarded the prize for his involvement in setting up his social organization and mobile app 'Cyber Teens' to stop cyberbullying.

• The award was presented by Nobel Peace Prize laureate Malala Yousafzai, during a ceremony in the Netherlands.

• He was selected out of 142 applicants from 42 countries.

Additional Information

• International Children's Peace Prize

• The International Children's Peace Prize is given annually since 2005 by the International Children's rights organization Kids Rights based in Amsterdam, the Netherlands.

• The prestigious Prize is annually awarded to a child who has made a special effort to promote children's rights and better the situation of vulnerable children.

Q93. Answer: (c) Himachal Pradesh

The correct answer is Himachal Pradesh.

Key Points

• Rahide

• Rahide is a long headscarf worn by the women of Himachal Pradesh to protect their heads from the cool breeze and also to depict their tradition.

• Rahide comes in different fabrics and patterns. The most commonly used pattern is the floral print that denoted the rich flora and fauna of the state and its surroundings.

• These scarves have been made mostly by local women for centuries.

Additional Information

• Himachal Pradesh

• Chief Minister - Jai Ram Thakur (As of March 2022).

• Governor - Gurmit Singh (As of March 2022).

• State bird - Western Tragopan

• State animal - Snow Leopard

• State tree - Deodar Cedar

• State flower - Pink rhododendron

• State Parks - Great Himalayan National Park, Inderkilla National Park, Khirganga National Park, Pin Valley National Park, Simbalbara National Park.

Q94. Answer: (d) Article 10

The correct answer is Article 10.

Key Points

• Article 10

• Continuance of citizenship rights Any person who, pursuant to any of the foregoing provisions of this Part, is or is deemed to be a citizen of India shall continue to be such a citizen, subject to the provisions of any legislation that may be made by Parliament.

Additional Information

• Article 9: Persons voluntarily acquiring citizenship of foreign state not to be citizens.

• Article 12: Article 12 defines the State includes the Government and Parliament of India and the Government and the Legislature of each of the States and all local or other authorities within the territory of India or under the control of the Government of India.

• Article 11: Parliament to regulate the rights of citizenship by law. Everyone has the right to freedom of peace assembly and to freedom of association others, including the right to form and to j trade unions for the protection of his interests.

Q95. Answer: (b) Michael Faraday

The correct answer is Michael Faraday.

Key Points

• Michael Faraday

• He is known as the Father of Electricity.

• He was the first who introduced the concept of electric field for the first time.

• He discovered the laws of electromagnetism.

• He also discovered the induction of electric current.

• He also discovered benzene in the year 1825.

• He also built the first electric generator and first electric motor.

Additional Information

• Blaise Pascal

• He was a French mathematician, physicist, inventor, philosopher, writer, and Catholic theologian.

• He was a child prodigy who was educated by his father.

• Joseph Henry

• He was an American scientist.

• He served as the first Secretary of the Smithsonian Institution.

• He was the secretary for the National Institute for the Promotion of Science.

Q96. Answer: (d) Karnataka

The correct answer is Karnataka.

Key Points

• After Independence, the Mysore State was created in 1953, wherein all the Kannada dominant areas under different dispensations were unified and the enlarged Mysore state was carved in 1956 and was renamed Karnataka in 1973.

• It is celebrated as Unification day.

• Karnataka
• Capital - Bangalore
• Chief Minister - Basavaraj Bommai (As of March 2022).
• Governor - Thawar Chand Gehlot (As of March 2022).
• State bird - Indian roller
• State animal - Indian Elephant
• State tree - Sandalwood
• State flower - Lotus
• National parks - Anshi National Park, Bandipur National Park, Bannerghatta National Park, Kudremukh National Park, Nagarahole National Park.

Q97. Answer: (c) Calcium sulphate

The correct answer is Calcium sulphate.

Key Points

• In a tetragonal crystal system:
• a=b≠c
• α = β = γ = 90^0
• Calcium Sulphate: It is a calcium compound with the formula CaSO4 and its related hydrates.
• Uses
• Its major use is in the manufacture of Plaster of Paris.
• It is used in tofu as a coagulant.
• The compound was used to make sulphuric acid before the 1970s.
• It is used as a moisture indicator.

Q98. Answer: (c) Deccan provinces

The correct answer is Deccan provinces.

Key Points

• Asafjahi dynasty
• The Asaf Jahi was a Muslim dynasty.
• It ruled the kingdom of Hyderabad.
• They came to India in the late 17th century and became employees of the Mughal Empire.
• Asaf Jahi rules over Golconda with the capital at Aurangabad.
• Founded by: Mir Qamar-ud-Din Siddiqi, a Viceroy of the Deccan emperors from 1713 to 1721.
• Last Ruler : Mir Osman Ali Khan

Q99. Answer: (c) Supercomputers

The correct answer is Supercomputers.

Key Points

• Supercomputers
• A Supercomputer would be used for weather forecasting.
• Supercomputers are used to forecast climate research, molecular modelling, and oil and gas exploration.
• Meteorologists use them to do research on the atmosphere and worldwide temperature variation.
• Scientists use them for sub-atomic demonstrating, which gives them the opportunity to figure out the structures and properties of natural composites.
• They are also used to figure out the impact of wind and turbulence on a plane.

Additional Information

• Mini Computers
• They are smaller in size, faster, cost lower than mainframe computers.
• Minicomputers are IBM-17, DEC PDP-11, HP-9000, etc.
• Microcomputers
• They are the least powerful, yet the most widely used and fastest-growing type of computer.
• They are also called portable computers.
• Mainframe computers

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• They are those having large internal memory storage and a comprehensive range of software.

• They serve as a backbone for the entire business world.

Q100. Answer: (d) Rajasthan

The correct answer is Rajasthan.

Key Points

• Maand

• Maand folk music related to Rajasthan state.

• The classic Maand composition was made immortal by legendary singers such as Allah Jilai Bai. The Best of Rajwadi Mand, offers valuable insights into Maand, the form of Rajasthani music that once flourished in the courts or Rajwadas of Rajasthan.

• The other artists featured in the compilation include Munshi Khan of Nagaur, Allah Jilai Bai of Bikaner, Lalita Bai of Kishangarh, the Jamila-Kulsum group from Jodhpur, Suraiyaa Begum from Jaipur, the Rukma-Hakla group from Barmer, and the Hasan Khan Manganiyar group from Jaisalmer.

• Rajasthan

• Capital - Jaipur

• Chief Minister - Ashok Gehlot (As of March 2022).

• Governor - Kalraj Mishra (As of March 2022).

• State bird - Godavan

• State animal - Chinkara and Camel

• State tree - Khejri

• State flower - Rohida

• National parks - Mukundra Hills National Park, Desert National Park, Keoladeo Ghana National Park, Ranthambhore National Park, Sariska National Park.

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