SSC CHSL Previous Paper 29 (Held On: 16 March 2018 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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Practise under exam conditions, then review your answers after you submit.

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ENGLISH LANGUAGE

Q1. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The car (1)/ usually stands (2)/ besides the tree. (3)/ No error (4)

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

Q2. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The salaried class may feel hard done by (1)/ and the young may not seeing a swift surge in (2)/ employment opportunities as a result of the Budget proposals. (3)/ No error (4)

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

Q3. In the following question, the sentence is given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

_____ a wrench she unscrewed the bolts.

(a) Along with
(b) On
(c) By means of
(d) Sticking

Q4. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

When others criticize us we should not be _____ but should be truthful, honest and sincere.

(a) Saturated
(b) Distracted
(c) Perturbed
(d) Dissipated

Q5. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Replenish

(a) Deplete
(b) Restore
(c) Waste

(d) Drain

Q6. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Veracious

(a) Brave
(b) Incorrect
(c) Accurate
(d) Arrogant

Q7. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Perpetual

(a) Continual
(b) Ceaseless
(c) Enduring
(d) Transitory

Q8. In the following question, out of the given four alternatives, select the one which is opposite in the meaning of the given word.

Puissant

(a) Secure
(b) Forceful
(c) Active
(d) Lazy

Q9. Rearrange the parts of the sentence in the correct order.

There is

P: large quantum of pesticides sold

Q: to farmers today is spurious

R: worrying evidence that a

(a) PRQ
(b) RPQ
(c) QPR
(d) PQR

Q10. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

The girl feeds the dog everyday.

(a) The dog was fed by the girl everyday.
(b) The dog is feed by the girl daily.
(c) The dog feed by the girl everyday.
(d) The dog is fed by the girl everyday.

Q11. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

The doctor said to us, “Where are you going?”

(a) The doctor enquired where we were going.
(b) The doctor enquired about our destination.
(c) The doctor said where are we going.
(d) The doctor says where we going.

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Q12. In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Idiosyncrasy
(b) Idicyncrrasy
(c) Idoeosyncrasy
(d) Idiocyncracy

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

In a work _____ art, each layer and texture, colour _____ perspective creates an individualistic vision, which can mean different things to different viewers and even to its creator at different points of time. The audience does not _____ see the struggle or uncertainty of the _____ process, only its outcome. And sometimes, _____ in the case of icons, the passage of time reveals the glow within.

Q13. In a work _____ art, each layer

(a) Of
(b) For
(c) From
(d) At

Q14. texture, colour _____ perspective creates

(a) Nor
(b) But
(c) And
(d) Also

Q15. audience does not _____ see the struggle

(a) Usual
(b) Usually
(c) Usualness
(d) Usuals

Q16. uncertainty of the _____ process,

(a) Creativity
(b) Creatively
(c) Create
(d) Creative

Q17. sometimes, _____ in the case of icons,

(a) As
(b) To
(c) So
(d) Of

Q18. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Be in the red

(a) Be the top performer.
(b) To be in a loss or debt.
(c) Be in the list of people who are never invited.
(d) Be in the bad books of a person.

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Q19. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Evil twin

(a) Getting punished for the deeds of another person who is just like you.
(b) An imaginary double humorously invoked to explain or excuse uncharacteristic or reprehensible behaviour.
(c) When two people are alike then one will be good and the other evil.
(d) To show behaviour which randomly switches between good and evil.

Q20. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Taste good food or drink and enjoy it to the fullest

(a) Acrid
(b) Savouring
(c) Acerb
(d) Caustic

Q21. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Lacking foresight or intellectual insight

(a) Sagacity
(b) Myopic
(c) Acumen
(d) Discern

Q22. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

It is a colourful event and everyone (have) a great time.

(a) is having
(b) Haves
(c) To have
(d) No improvement

Q23. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Elections, rights, governance and leadership (is becoming) empty words.

(a) Are become
(b) Are becoming
(c) Is become
(d) No improvement

Q24. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

They sat

A-there and mourned as only

B-mute and helpless beings

C-can, for weeks on end

(a) ABC
(b) CBA
(c) CAB
(d) BCA

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Q25. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) Annunciation
(b) Anunciation
(c) Annunceation
(d) Anunceation

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

House : Servant :: ? : ?

(a) Restaurant : Waiter
(b) School : Artist
(c) Gallery : Actor
(d) Garage : Chef

Q27. In the following question, select the related number from the given alternatives.

55 : 47 :: 69 : ?

(a) 63
(b) 61
(c) 55
(d) 65

Q28. In the following question, select the related letter/letters from the given alternatives.

DFG : EGH : : PQR : ?

(a) QRS
(b) RST
(c) QST
(d) RTU

Q29. In the following question, select the odd word pair from the given alternatives.

(a) Surgeon – Scalpel
(b) Tailor – Scissors
(c) Chisel – Sculptor
(d) Chef – Knife

Q30. In the following question, four number pairs are given. The number on left side of (–) is related to the number on the right side of (–) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 15 – 18
(b) 21 – 24
(c) 12 – 15
(d) 14 – 16

Q31. In the following question, select the odd group of letters from the given alternatives.

(a) CDFI
(b) HIKN
(c) JKMP
(d) LMPS

Q32. Arrange the given words in the sequence in which they occur in the dictionary.

1. Sympathy
2. Swollen
3. Tablespoon

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4. Tactless

5. Tactful

(a) 13245
(b) 43125
(c) 53142
(d) 21354

Q33. In the following question, select the missing number from the given series.

19, 21, 25, 27, 31, ?

(a) 35
(b) 32
(c) 33
(d) 39

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

AFH, CHJ, EJL, ?, INP

(a) GHI
(b) GLN
(c) HIR
(d) HLN

Q35. Among four cars, weight of C1 is twice the weight of C2. Weight of C3 is half of the weight of C2. C4 is 40 kg heavier than C2, but 40 kg lighter than C1. What is the weight (in kg) of C4?

(a) 160
(b) 140
(c) 120
(d) 100

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Jurisprudence

(a) Ripe
(b) Rude
(c) Jury
(d) Run

Q37. In a certain code language, “MOTOR” is written as “ORXTX”. How is “GUARD” written in that code language?

(a) MWEJL
(b) VTXRM
(c) JXIWK
(d) IXEWJ

Q38. In a certain code language, '×' represents '+', '÷' represents '×', '-' represents '÷' and '+' represents '-'. Find the answer to the following question.

18 - 2 + 20 × 10 ÷ 4 = ?

(a) 11
(b) 2
(c) 29
(d) 35

Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

10 ÷ 18 + 25 × 20 - 5 = 92

(a) • and ×
(b) • and ÷

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(c) ÷ and -
(d) • and +

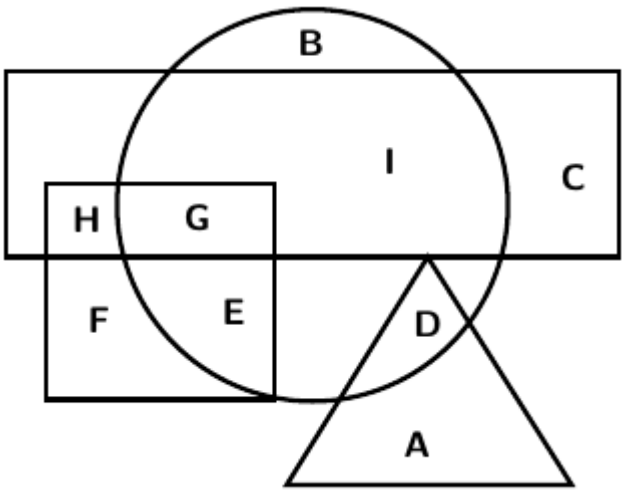
Q40. If 7Δ6 = 84, 1Δ4 = 8 and 2Δ3 = 12, then find the value of 8Δ4 = ?
(a) 64
(b) 36
(c) 12
(d) 40

Q41. Which of the following terms follows the trend of the given list?
PQPQPQPQ, RQPQPQPQ, PSPQPQPQ, PQRQPQPQ, PQPSPQPQ, _____.
(a) PQPQPSPQ
(b) PQPQRQPQ
(c) PQPQPQPQ
(d) RQPQPQPQ

Q42. Two ladies A and B start walking from the same point. A walks 75 m North, then turns to her left and walks 90 m. B walks 110 m South, then turns West and walks 90 m, then turns to her left and walks 150 m. Where is B with respect to A now?
(a) 85 m South
(b) 335 m South
(c) 335 m North
(d) 85 m North

Q43. Directions: In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.
Statement I: No steam are vapours
Statement II: All smoke are steam
Conclusion I: Some vapours are smoke
Conclusion II: No smoke are vapours
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q44. In the following figure, rectangle represents Authors, circle represents Choreographers, triangle represents Playwrights and square represents Asians. Which set of letters represents Authors who are not Asians?



(a) HG
(b) FE

(c) DA
(d) IC

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

DSL, FUN, HWP, ?, LAT

(a) KXS
(b) JYR
(c) JZS
(d) KYR

Q46. In the following question, select the missing number from the given series.

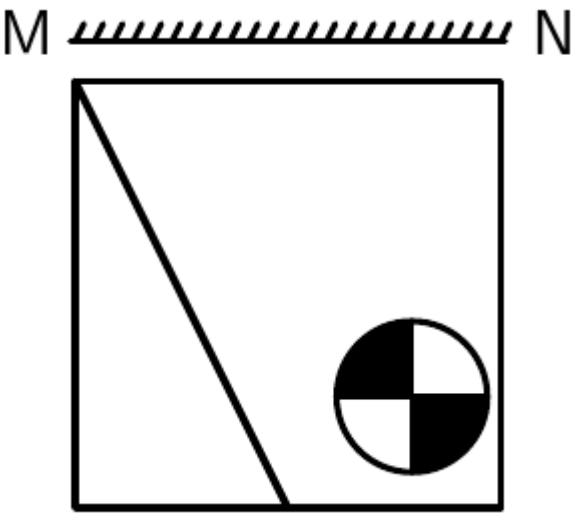
131, 138, 145, 152, ?, 166

(a) 161
(b) 163
(c) 157
(d) 159

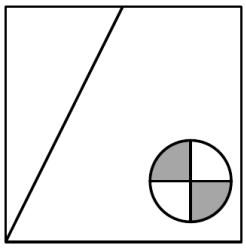
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (3, 12, 48)
(b) (2, 8, 32)
(c) (6, 24, 96)
(d) (5, 20, 60)

Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

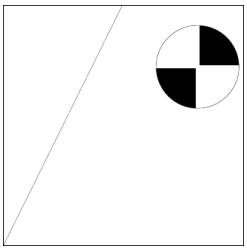


(a)

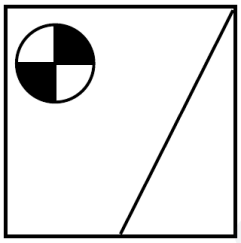


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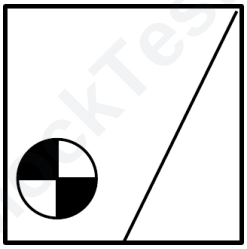
(b)



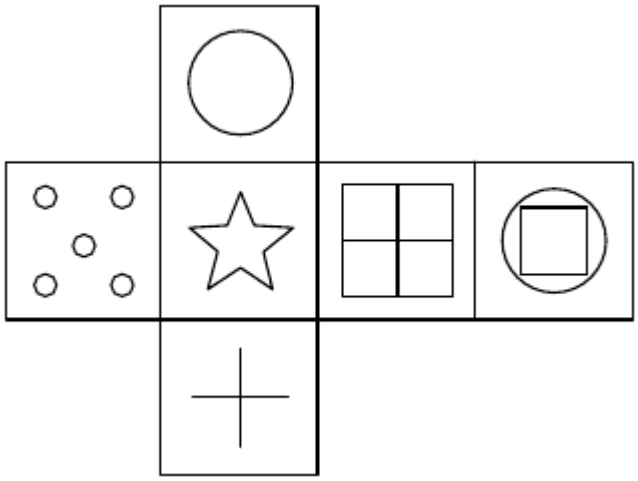
(c)



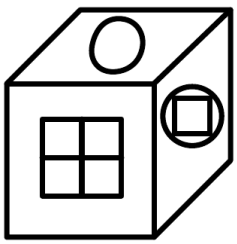
(d)



Q49. Which of the following cubes in the answer figure cannot be made based on the unfolded cube in the question figure?

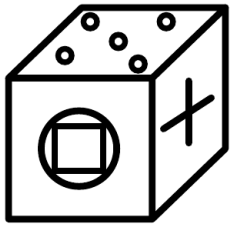


(a)

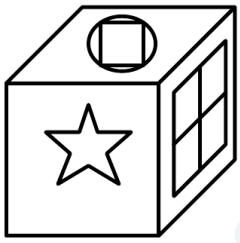


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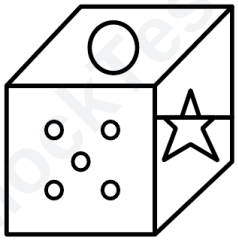
(b)



(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example ‘A’ can be represented by 23, 41 etc and ‘U’ can be represented by 86, 97 etc. Similarly, you have to identify the set for the word ‘GONE’.

Matrix-I					
	0	1	2	3	4
0	G	G	K	A	G
1	D	K	E	E	L
2	K	B	E	A	J
3	L	M	G	J	K
4	K	A	G	L	B

Matrix-II					
	5	6	7	8	9
5	N	Q	W	S	O
6	O	Q	V	R	R
7	W	O	N	T	Y
8	T	U	Y	R	V
9	N	X	U	S	Q

(a) 40,79,42,57
(b) 34,69,44,75
(c) 33,78,24,95

(d) 42,65,77,13

QUANTITATIVE APTITUDE

Q51. What will be the maximum power of 8 that exactly divides 25!?

(a) 6
(b) 7
(c) 8
(d) 9

Q52. Simplify:

(157 × 157 + 143 × 143)

(a) 45098
(b) 46098
(c) 90196
(d) 91196

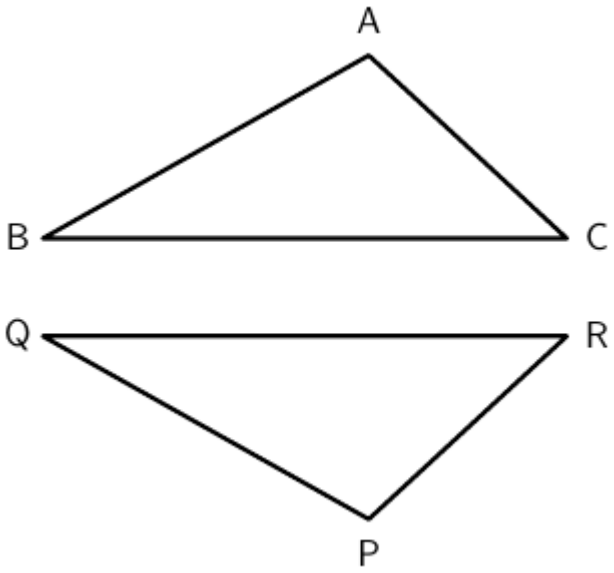
Q53. If $y - 1/y = 4$, then find the value of $(y^3 - 1/(y^3))$

(a) 64
(b) 76
(c) 88
(d) 90

Q54. If $a = \sqrt{(5 + 2\sqrt{2})}$ and $b = \sqrt{(5 - 2\sqrt{2})}$ then find the value of $a^2 – b^2$.

(a) 2
(b) 4
(c) $\sqrt{2}$
(d) $4\sqrt{2}$

Q55. Which of the following is the correct option for the congruency of the two traingels ABC and PQR as per the SAS congruency creterion?



(a) AB = PQ
(b) BC = QR
(c) angle B = angle Q
(d) All options are correct

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Q56. _____ is the point at which the perpendicular bisectors of the sides meet and the center of the circle that circumscribes the triangle is _____.

(a) Incenter, Circumcenter
(b) Circumcenter, Circumcenter
(c) Circumcenter, Incenter
(d) Orthocenter, Circumcenter

Q57. If 60% of a number is added to 60, then the result is equal to the number itself. What is the number?

(a) 150
(b) 120
(c) 100
(d) 180

Q58. The ratio of salary of u, v and w is 8 : 7 : 13. If w gets Rs. 3384 more than that of v, then what is the salary (in Rs.) of u?

(a) 4432
(b) 4512
(c) 4642
(d) 5144

Q59. An 80 litre mixture of water and acid contains 20% acid. How much acid should be added to make the acid 60% in the new mixture?

(a) 60
(b) 80
(c) 70
(d) 90

Q60. A person purchased 10 shirts costing Rs. 150 per shirt. Next day he again purchased the shirts costing Rs. 150 per shirt at a discount of Rs. 30 per shirt and that day he spent a total of Rs. 1800. What is the average cost per shirt (in Rs.)?

(a) 125
(b) 132
(c) 138
(d) 144

Q61. Simple interest on a sum of Rs. 50200 for 3 months is Rs. 1380.5. What is the rate (in percentage) of interest per annum?

(a) 11
(b) 9
(c) 9.5
(d) 8.5

Q62. On selling 120 bottles, Vijay earns a profit equal to the cost price of 10 bottles. What is the profit percentage?

(a) 8.33
(b) 9.09
(c) 7.7
(d) 12.5

Q63. The marked price of a shirt is Rs. 1800 and retailer gets a discount of 40%. If he sells that shirt for Rs. 1800, then what is the profit percentage of retailer?

(a) 40
(b) 66.66
(c) 37.5
(d) 62.5

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Q64. If x = 0.139, then what is the value of √(4x² + 4x + 1)

(a) 1.39
(b) 1.278
(c) 2.139
(d) 1.69

Q65. Rahul can complete a work in 18 days and Sonu can complete the same work in 15 days. If both together work for 5 days, then what part of total work is left?

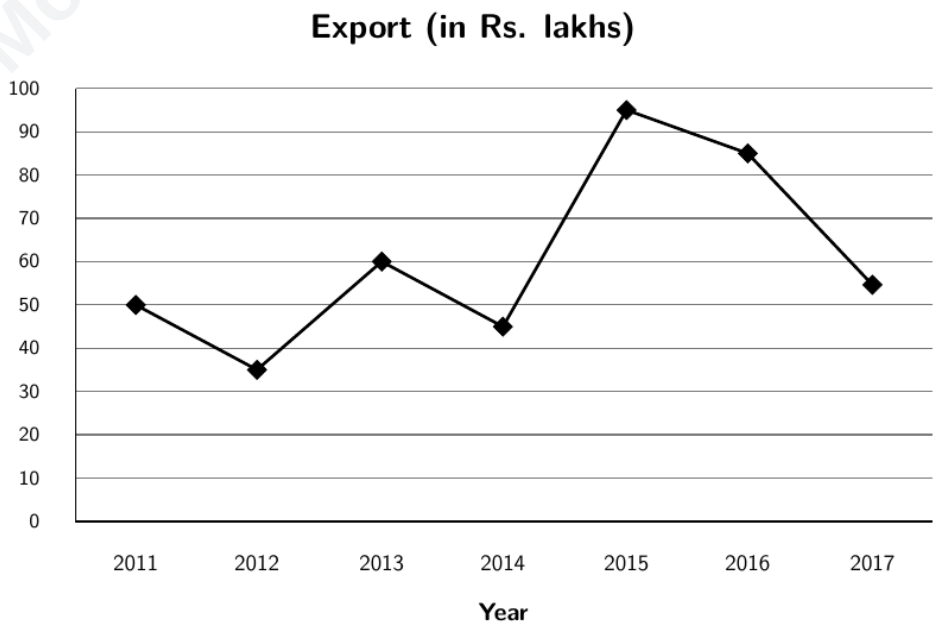
(a) 7/15
(b) 11/18
(c) 7/18
(d) 8/15

Q66. A train moves at a speed of 35 m/sec and crosses a tunnel of length 960 metres, in 40 seconds. What is the length (in metres) of the train?

(a) 360
(b) 440
(c) 530
(d) 560

Directions

Direction: The line graph shows the exports by a certain company. Study the diagram and answer the following questions.



Q67. In which year were the exports greater than that of the previous year?

(a) 2016
(b) 2015
(c) 2017
(d) 2014

Q68. What was the difference in the exports (in Rs lakhs) between the years 2012 and 2014?

(a) 10
(b) 5
(c) 15
(d) 20

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Q69. The exports in 2014 were lesser than that in 2011 by _____.

(a) 16.7%
(b) 20%
(c) 8.5%
(d) 10%

Q70. What were the total exports (in Rs lakhs) by the company in the last four years?

(a) 300
(b) 290
(c) 280
(d) 310

Q71. The perimeter and the breadth of a rectangle are 68 cm and 10 cm respectively. Calculate the length of its diagonal (in cm).

(a) 52
(b) 25
(c) 26
(d) 50

Q72. Find the area (in cm^2) of a semi-circle of radius 14 cm.

(a) 308
(b) 616
(c) 160
(d) 320

Q73. The volume of a hemisphere is 2425.5 cm^3. Find its diameter (in cm).

(a) 10.5
(b) 42
(c) 21
(d) 31.5

Q74. What is the value of (sin30° + 1/3)?

(a) $(2\sqrt{2} + \sqrt{3})/2$
(b) $(\sqrt{6} + 1)/\sqrt{3}$
(c) 7/3
(d) 5/6

Q75. ΔDEF is right angled at E. If sec D = 17/8, then what is the value of cos F?

(a) 15/17
(b) 15/8
(c) 8/17
(d) 17/15

GENERAL AWARENESS

Q76. Visible and invisible items of debit and credit are the part of_____.

(a) Import-Export Policy
(b) Balance of Payment
(c) Balance of Trade
(d) Annual Budget

Q77. Which Five Year Plan was a failure due to India-China war followed by Indo-Pakistan?

(a) Fourth Five Year Plan
(b) Seventh Five Year Plan
(c) Third Five Year Plan

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(d) Rolling Plan

Q78. Who was the first ruler of Pala Dynasty?

(a) Mahendra Pala
(b) Gopala
(c) Dharampala
(d) No option is correct.

Q79. Who of the following operated the first regular trade union in India?

(a) M.N. Lokhande
(b) B.P. Wadia
(c) Shashipad Banerjee
(d) N.M. Joshi

Q80. How much longitude does the Earth move in an hour?

(a) 12°
(b) 15°
(c) 18°
(d) 20°

Q81. Which Indian state touches the border of maximum states?

(a) Madhya Pradesh
(b) Assam
(c) Uttar Pradesh
(d) Chhattisgarh

Q82. Who among the following is NOT a dancer of Odissi?

(a) Sanjukta Panigrahi
(b) Sonal Mansingh
(c) Madhavi Mudgal
(d) Yamini Krishnamurthy

Q83. What was the slogan of World AIDS Day which was celebrated on December 01, 2017?

(a) Right to Health
(b) Everybody Counts
(c) Volunteer's Act First
(d) Right to Live

Q84. In which of the following fields was Prof. Richard H. Thaler awarded the Nobel Prize 2017?

(a) Physics
(b) Chemistry
(c) Literature
(d) Economics

Q85. In terms of population which is the largest city of China?

(a) Beijing
(b) Shanghai
(c) Guangzhou
(d) Shenzhen

Q86. What is the position of metallic ion and non-metallic ion in a chemical formula?

(a) Metal ion at the second position
(b) Non-metal ion at first position
(c) Metal ion at first and non-metal ion at the second position
(d) No option is correct.

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Q87. Lime water becomes milky due to which of the following gases?

(a) CO2
(b) O2
(c) NO2
(d) N2

Q88. According to Dr. B. R. Ambedkar who shall be the most important officer under the Constitution of India?

(a) Chairman of Union Public service Commission
(b) Chairman of Election Commission of India
(c) Chief Justice of India
(d) Comptroller and Auditor General of India

Q89. Which part of Indian Constitution deals with Elections?

(a) Part XII
(b) Part XIII
(c) Part XIV
(d) Part XV

Q90. In which of the following part of Neuron the information is transmitted in the chemical form?

(a) Dendrite
(b) Cell body
(c) Axon
(d) No option is correct.

Q91. Which of the following is/are the function of Transpiration in plants ?

(a) Absorption and upward movement of water
(b) Absorption and upward movement of minerals dissolved in water
(c) Temperature regulation
(d) All options are correct

Q92. To commemorate the 75^(th) anniversary of Quit India Movement, which program was organized by the Central Government in August 2017?

(a) Sankalp se Shakti
(b) Sankalp se Siddhi
(c) Saavdhani se Suraksha
(d) Sangharsh se Saksham

Q93. What is the name of the probe launched by NASA in 2018 to explore the Sun’s outer atmosphere?

(a) Hopkin Solar Probe
(b) Sheild Solar Probe
(c) Delta Solar Probe
(d) Parker Solar Probe

Q94. NABARD sanctioned a loan assistance of Rs. 1350 crore to Rajasthan under the ‘RIDF’. What does ‘R’ stand for in ‘RIDF’?

(a) Rapid
(b) Re-arrange
(c) Rural
(d) Response

Q95. On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. It will empower the government to _____ property of economic offenders and defaulters who flee from India.

(a) Consolidate
(b) Confiscate
(c) Combine

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(d) Collect

Q96. Calculate the power (in W) of an engine if it can perform 120 J of work in 3 seconds.

(a) 360
(b) 80
(c) 180
(d) 40

Q97. Quantitatively, the inertia of an object is measured by _____

(a) its weight
(b) the product of its mass and velocity
(c) its mass
(d) the product of its mass and acceleration

Q98. An instrument that measures the wind speed is called _____.

(a) An anemometer
(b) An odometer
(c) A manometer
(d) A barometer

Q99. Which of the statements given below are correct?

A) Belgium hosted the Table Tennis 2017 ITTF Men's World Cup.
B) In 2017, Giannis Antetokounmpo played for the NBA team, Milwaukee Bucks.
C) The United Arab Emirates hosted the 2017 Indoor Cricket World Cup.

(a) Only B
(b) Only C
(c) Both B and C
(d) A, B and C

Q100. In Microsoft Word, _____ margin is the space left on one side for stitching and binding.

(a) Portrait
(b) Gutter
(c) Landscape
(d) Columns

ANSWER KEY

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

SOLUTIONS

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Q1. Answer: (c) 3

The correct answer is- 'error lies in the part-3'

Key Points

• Using 'beside' in the place of 'besides' makes the sentence errorless.

• 'Beside' is a preposition and It means ‘at the side of’ or ‘next to’.

• Example: Your shoes are beside the closet

• 'Besides' can be both preposition and adverb depending on the context used.

• Example: No one besides a good leader can take such a call for citizens' welfare.

The correct sentence is- The car usually stands beside the tree.

Q2. Answer: (b) 2

The correct answer is- 'error lies in the part-2'

Key Points

• Using 'may not see' in the place of 'may not seeing' to make the sentence errorless.

• We know that Modal verbs (can, could, may, might, will, shall, would, should, and must) are followed by the first form of the verb. So that needs to replace 'see' instead of 'seeing'.

• Let's see some example:

• The doctor can see you now.

• You must turn in your assignment on time.

The correct sentence is- The salaried class may feel hard done by and the young may not see a swift surge in employment opportunities as a result of the Budget proposals.

Q3. Answer: (c) By means of

The correct answer is- 'By means of'

Key Points

• Using 'By means of' in the blank space to make the sentence meaningful.

• We know that 'A wrench' is a tool used to turn objects.

• Example: She unscrewed the bolts using a wrench.

• If you do something by means of a particular method, instrument, or process, you do it using that method, instrument, or process.

• Example: This is a two-year course taught by means of lectures and seminars.

Hence option 3 is the most appropriate answer here.

Q4. Answer: (c) Perturbed

The correct answer is- 'Perturbed'

Key Points

• Using 'Perturbed' in the blank space to make the sentence meaningful.

• The word 'Perturbed' is an adjective and it means 'make (someone) anxious or unsettled'. According to the context of the sentence, it is the most suitable option here.

• Example: He didn't seem overly perturbed by the news.

The correct sentence is- When others criticize us we should not be perturbed but should be truthful, honest, and sincere.

Additional Information

WORDS	MEANING
Saturated	holding as much water or moisture as can be absorbed; thoroughly soaked.
Distracted	unable to concentrate because one's mind is preoccupied.
Dissipated	(with reference to a feeling or other intangible thing) disappear or cause to disappear.

Q5. Answer: (b) Restore

The correct answer is- 'Restore'

Key Points

• 'Replenish' is a verb and it means 'to fill something up again' so that the similar word of 'Replenish' is 'Restore'. It is the most

suitable option here.

• Example: Food stocks were replenished with imports from abroad.

Hence option 2 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Deplete	use up the supply or resources of.
Waste	use or expend carelessly, extravagantly, or to no purpose.
Drain	cause the water or other liquid in (something) to run out, leaving it empty, dry, or drier.

Q6. Answer: (c) Accurate

The correct answer is- 'Accurate'

Key Points

• 'Veracious' is an adjective and it means 'honest and not telling or containing any lies' so that the similar word of 'Veracious' is 'Accurate'. It is the most suitable option here.

• Example: A veracious and trustworthy historian.

Hence option 3 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Brave	ready to face and endure danger or pain; showing courage.
Incorrect	not in accordance with fact; wrong.
Arrogant	having or revealing an exaggerated sense of one's own importance or abilities.

Q7. Answer: (d) Transitory

The correct answer is- 'Transitory'

Key Points

• 'Perpetual' is an adjective and it means 'continuing for ever in the same way' so that the opposite word of 'Perpetual' is 'Transitory'. It is the most suitable option here.

• Example: They lived in perpetual fear of being discovered.

• 'Transitory' is an adjective that means not permanent.

• Example: It was one of the transitory periods of medieval greatness.

Hence option 4 is the most appropriate answer here.

Additional Information

WORDS	MEANING
Continual	frequently recurring; always happening.
Ceaseless	constant and unending.
Enduring	suffer (something painful or difficult) patiently.

Q8. Answer: (d) Lazy

The correct answer is- 'Lazy'

Key Points

• 'Puissant' is an adjective and it means 'very strong, powerful, and effective' so that the opposite word of 'Puissant' is 'Lazy'. It is the most suitable option here.

• Example: The king introduced some of his most significant reforms as an advertisement of his own ever more puissant authority.

Hence option 4 is the most appropriate answer here.

Additional Information

WORDS	MEANING

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Secure	fixed or fastened so as not to give way, become loose, or be lost.
Forceful	(especially of a person or argument) strong and assertive; vigorous and powerful.
Active	engaging or ready to engage in physically energetic pursuits.

Q9. Answer: (b) RPQ

The correct answer is- 'RPQ'

Key Points

• According to the started sentence, 'There is' option Q (to farmers today is spurious) can't be the first (There is to farmers = doesn't make sense.)

• The Option P (large quantum of pesticides sold) can't be first either as 'there is a large quantum' is missing in the article 'a' after 'there is'

The correct sentence is- There is worrying evidence that a large quantum of pesticides sold to farmers today is spurious.

Q10. Answer: (d) The dog is fed by the girl everyday.

The correct answer is- 'The dog is fed by the girl everyday'

Key Points

• In the given question the sentence 'The girl feeds the dog everyday' is in 'Active voice' which is in the present indefinite and we know that after converted this sentence into 'Passive voice' the tense will same which also should in present indefinite.

• Struture Present indefinite:

• Sub + V1 + s/es + object (Active)

• Object + is/am/are + V3 + by + subject (Passive)

• Let's see the example:

• Reema cleans the floor (Active)

• The floor is cleaned by Reema (Passive)

Hence the correct answer is- The dog is fed by the girl everyday

Q11. Answer: (a) The doctor enquired where we were going.

The correct answer is- 'The doctor enquired where we were going'

Key Points

• In the reported speech 'said to' is given and according to the context of the question we can say 'the doctor' is doing enquiry so we can easily eliminate the option 2 & 3.

• And we know that in the indirect speech we can't change the given information of the question so option 2 is also eliminated here.

The correct sentence is- The doctor enquired where we were going.

Q12. Answer: (a) Idiosyncrasy

The correct answer is- 'Idiosyncrasy'

Key Points

• 'Idiosyncrasy' is a noun and it means 'a strange or unusual habit, way of behaving, or feature that someone or something has'

• Example: One of the idiosyncrasies of this printer is that you can't stop it once it has started.

Here, the correct spelling is- Idiosyncrasy

Q13. Answer: (a) Of

The correct answer is- 'Of'

Key Points

• Using 'of' is in the blank space to make the sentence correct.

• 'Of' expresses the relationship of a part of something to its whole. It is the most suitable preposition here according to the context of the question.

• Example: Some parts of his body were injured.

The correct sentence is- In a work of art, each layer

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Q14. Answer: (c) And

The correct answer is- 'And'

Key Points

• Using 'And' is in the blank space to make the sentence correct.

• In the given sentence 'And' is the coordinating conjunction that is used to connect the two-sentence. Notice how they are being mentioned in the same sentence and being talked of together of the alike things. So use 'and' here.

• 'And' is the most suitable option according to the context of the question.

The correct sentence is- texture, colour and perspective creates

Q15. Answer: (b) Usually

The correct answer is- 'Usually'

Key Points

• Using 'Usually' in the blank space to make the sentence correct.

• In the given question 'See' is a verb. Clearly, something that describes the verb i.e. an adverb must fill in the blank. So that 'Usually' is the most appropriate option here.

The correct sentence is- Audience does not usually see the struggle

Q16. Answer: (d) Creative

The correct sentence is- 'Creative'

Key Points

• Using 'Creative' in the blank space to make the sentence correct.

• The 'process' is being used as a noun here. Thus, we need an adjective in the blank to describe the process. So that 'creative' is the most appropriate option here.

The correct sentence is- Uncertainty of the creative process,

Q17. Answer: (a) As

The correct answer is- 'As'

Key Points

• Using 'As' in the blank space to make the sentence correct.

• We are referring to the case of icons. Like the case of icons. We are giving an example. 'As in' is used in such cases. So that 'As' is the most appropriate option here.

The correct sentence is- sometimes, as in the case of icons,

Additional Information

• In formal writing, like is used as a preposition, telling where, when, or how the noun in the sentence is doing whatever it may be doing. As is used as a conjunction, joining two clauses.

• Example: No one makes chocolate cake as my mother does.

Q18. Answer: (b) To be in a loss or debt.

The correct answer is- 'To be in a loss or debt'

Key Points

• 'Be in the red' is an idiom and it means 'If you or your bank account are in the red, you owe money to the bank.'

• Example: The company was already in the red to the extent of more than three million pounds.

Hence the option 2 is giving the correct meaning of the given idiom Be in the red

Q19. Answer: (b) An imaginary double humorously invoked to explain or excuse uncharacteristic or reprehensible behaviour.

The correct answer is- 'An imaginary double humorously invoked to explain or excuse uncharacteristic or reprehensible behavior.'

Key Points

• 'Evil twin' is an idiom and it means 'A malignant, treacherous, and/or malicious counterpart of a person or thing'

• Example: There was an evil twin operating at the coffee shop, and I gave out my credit card number before I knew what was going on.

Hence the option 2 is giving the correct meaning of the given idiom Evil twin.

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Q20. Answer: (b) Savouring

The correct answer is- 'Savouring'

Key Points

• 'Savouring' is a verb and it means 'to enjoy food or an experience slowly, in order to enjoy it as much as possible'.

• Example: It was the first chocolate he'd tasted for over a year, so he savoured every mouthful.

Hence the correct word is- Savouring

Additional Information

WORDS	MEANING
Acrid	having an irritatingly strong and unpleasant taste or smell.
Acerb	another term for acerbic.
Caustic	able to burn or corrode organic tissue by chemical action.

Q21. Answer: (b) Myopic

The correct answer is- 'Myopic'

Key Points

• 'Myopic' is an adjective and it means 'not able to see clearly things that are far away'.

• Example: Their myopic refusal to act now will undoubtedly cause problems in the future.

Hence the correct word is- Myopic

Additional Information

WORDS	MEANING
Sagacity	the quality of having or showing understanding and the ability to make good judgments
Acumen	the ability to make good judgments and quick decisions, typically in a particular domain.
Discern	perceive or recognize (something).

Q22. Answer: (a) is having

The correct answer is- 'is having'

Key Points

• Using 'is having' in the place of 'have' to make the sentence meaningful.

• In the given sentence we are talking about the present and according to the context of the sentence, we need to make it present continuous.

• Structure of present continuous: Sub + is/am/are + V1 + ing + object

The correct sentence is- It is a colourful event and everyone is having a great time.

Additional Information

• Presente continuous: The present continuous verb tense indicates that an action or condition is happening now, frequently, and may continue into the future.

• Example: I am singing at church today.

Q23. Answer: (b) Are becoming

The correct answer is- 'Are becoming'

Key Points

• Using 'Are coming' in the place of 'Is becoming' to make the sentence correct.

• In the sentence the subject 'Elections, rights, governance and leadership' is plural so here we need to put the plural verb. Replace 'are' instead of 'is'

The correct sentence is- Elections, rights, governance and leadership are becoming empty words.

Q24. Answer: (a) ABC

The correct answer is- *'*ABC'

Key Points

• In the started sentence 'They sat' can't be followed by option C (can, for weeks on end) because it is in the past indefinite so it

can't take the verb 'can' after it and same also with the option B (mute and helpless beings)

The correct sentence is- They sat there and mourned as only mute and helpless beings can, for weeks on end.

Q25. Answer: (a) Annunciation

The correct answer is- 'Annunciation'

Key Points

• 'Annunciation' is a noun and it means 'an act of announcing something'

• Example: a clear annunciation of their policy

Here, the correct spelling is- Annunciation

Q26. Answer: (a) Restaurant : Waiter

Servant is a person employed in a house on domestic duties or as a personal attendant.

Similarly,

a man whose job is to serve customers at their tables in a restaurant.

Hence, 'restaurant : Waiter' is the correct answer.

Q27. Answer: (b) 61

The pattern followed here is,

55 - 8 = 47;

Similarly,

69 - 8 = 61

Hence, 61 is the correct answer.

Q28. Answer: (a) QRS

The pattern followed here is,

D + 1 = E;

F + 1 = G;

G + 1 = H;

Similarly,

P + 1 = Q;

Q + 1 = R;

R + 1 = S

Hence, QRS is the correct answer.

Q29. Answer: (c) Chisel – Sculptor

Here except Chisel – Sculptor, all are professionals and their respective tools are present which they use in their task.

Where, Chisel – Sculptor is written in reverse order.

Hence, 'Chisel – Sculptor' is the odd one out.

Q30. Answer: (d) 14 – 16

The pattern followed here is,

18 - 15 = 3;

24 - 21 = 3;

15 - 12 = 3;

16 - 14 = 2

Hence, 14 – 16 is odd one out.

Q31. Answer: (d) LMPS

The pattern followed here is,

1) CDFI → C + 1 = D; D + 2 = F; F + 3 = I

2) HIKN → H + 1 = I; I + 2 = K; K + 3 = N

3) JKMP → J + 1 = K; K + 2 = M; M + 3 = P

4) LMPS → L + 1 = M; M + 3 = P; P + 3 = S

Hence, LMPS is the odd one out.

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Q32. Answer: (d) 21354

Given:

1. Sympathy 2. Swollen 3. Tablespoon 4. Tactless 5. Tactful

According to the sequence in the English dictionary:

The correct order of the given words is:

2. Swollen

1. Sympathy

3. Tablespoon

5. Tactful

4. Tactless

Hence, '21354' is the correct order.

Q33. Answer: (c) 33

The pattern followed here is,

19 + 2 = 21;

21 + 4 = 25;

25 + 2 = 27;

27 + 4 = 31;

31 + 2 = 33

Hence, 33 is the correct asnwer.

Q34. Answer: (b) GLN

The pattern followed here is,

A + 2= C; C + 2 = E; E + 2 = G; G + 2 = I

F + 2 = H; H + 2 = J; J + 2 = L; L + 2 = N

H + 2 = J; J + 2 = L; L + 2 = N; N + 2 = P

Hence, ‘GLN’ is the correct answer.

Q35. Answer: (c) 120

1) Let weight of C3 is ‘x’.

2) Weight of C3 is half of the weight of C2, therefore weight of C2 = 2x.

3) Weight of C1 is twice the weight of C2 = 4x.

4) C4 is 40 kg heavier than C2 = 2x + 40,

5) also, C4 is 40 kg lighter than C1 = 4x - 40

6) Hence, Weight of C4 =

2x + 40 = 4x - 40

2x + 80 = 4x

2x = 80

x = 40

Hence, 2x + 40 = 2 (40) + 40 = 80 + 40 = 120

Hence, weight of C4 is 120 kg.

Q36. Answer: (c) Jury

1) Ripe: JURISPRUDENCE, hence word can be formed.

2) Rude: JURISPRUDENCE, hence word can be formed.

3) Jury: As letter ‘Y’ is not present in the given word JURISPRUDENCE, hence word cannot be formed.

4) Run: JURISPRUDENCE, hence word can be formed.

Q37. Answer: (d) IXEWJ

In a certain coding language,

Similarly,

Hence,in the given coding language, GUARD can be written as ‘IXEWJ’.

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Q38. Answer: (c) 29

As per the given information,

Symbols	×	÷	•	•
Codes	•	×	÷	•

Given: 18 - 2 + 20 × 10 ÷ 4.

Changing the signs as per the given symbols and their respective codes,

= 18 ÷ 2 - 20 + 10 × 4

Applying BODMAS rule,

= 9 - 20 + 40

= 29

Hence, 29 is the correct answer.

Q39. Answer: (c) ÷ and -

Changing symbols as per the given alternatives,

1) 10 ÷ 18 × 25 + 20 - 5 = 28.88 ≠ 92

2) 10 + 18 ÷ 25 × 20 - 5 = 19.4 ≠ 92

3) 10 - 18 + 25 × 20 ÷ 5 = 92 = 92

4)10 ÷ 18 - 25 × 20 + 5 = -494 ≠ 92

Hence, '÷ and -' is the correct answer.

Q40. Answer: (a) 64

The pattern followed here is,

7 × 6 × 2 = 84;

1 × 4 × 2 = 8;

2 × 3 × 2 = 12;

Similarly,

8 × 4 × 2 = 64

Hence, 64 is the correct answer.

Q41. Answer: (b) PQPQRQPQ

The pattern followed here is,

P	Q	P	Q	P	Q	P	Q
R	Q	P	Q	P	Q	P	Q
P	S	P	Q	P	Q	P	Q
P	Q	R	Q	P	Q	P	Q
P	Q	P	S	P	Q	P	Q
P	Q	P	Q	R	Q	P	Q

Hence, 'PQPQRQPQ' is the correct answer.

Q42. Answer: (b) 335 m South

As per the given information,

Hence, B is 335 m south to A.

Q43. Answer: (b) Only conclusion II follows

Conclusion:

I. Some vapours are smoke → It is possible but not definite, hence false.

II. No smoke are vapours → It is true.

Hence, only conclusion II follows.

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Q44. Answer: (d) IC

Hence, 'IC' represents set of letters which are authors who are not asians.

Q45. Answer: (b) JYR

The pattern followed here is,

D + 2 = F; F + 2 = H; H + 2 = J; J + 2 = L;

S + 2 = U; U + 2 = W; W + 2 = Y; Y + 2 = A;

L + 2 = N; N + 2 = P; P + 2 = R; R + 2 = T

Hence, JYR is the correct answer.

Q46. Answer: (d) 159

The pattern followed here is,

131 + 7 = 138;

138 + 7 = 145;

145 + 7 = 152;

152 + 7 = 159;

159 + 7 = 166

Hence, 159 is the correct answer.

Q47. Answer: (d) (5, 20, 60)

The pattern followed here is,

3 × 4 = 12; 12 × 4 = 48;

2 × 4 = 8; 8 × 4 = 32;

6 × 4 = 24; 24 × 4 = 96;

5 × 4 = 20; 20 × 3 = 60

Hence, (5, 20, 60) is the odd one out.

Q48. Answer: (b) [figure]

The correct mirror image of the given figure when the mirror is held on the right side is:

Hence, option 2 is the correct answer.

Additional Information

In the Mirror image left side and right side changed vice-versa where the top and bottom remain the same.

The reflection of an object into the water is its water image. It appears by inverting an object vertically i.e. upside down.

The water image of the figure looks like the mirror image of the figure in case the mirror is horizontally at the bottom of the figure.

The water image is just a reflection where the top and bottom parts of the images changed while the left and right sides of the image remain the same.

Q49. Answer: (c) [figure]

The star and the square embedded in the circle should be opposite to each other.

Hence, image 3 is the odd one out.

Q50. Answer: (d) 42,65,77,13

1) 40,79,42,57 → K, Y, G, W

2) 34,69,44,75 → K, R, B, W

3) 33,78,24,95 → J, T, J, N

4) 42, 65, 77, 13 → G, O, N, E

Hence, 42, 65, 77, 13 is the correct answer.

Q51. Answer: (b) 7

Calculation:

Take the highest power from the options and divide the equation.

25!/8^7 = (25 × 24 × 23 × 22 × 21 × 20 × 19 × 18 × 17 × 16 × 15 × 14 × 13 × 12 × 11 × 10 × 9 × 8 × 7 × 6 × 5 × 4 × 3 × 2 × 1)/8^7

In solving this eq. 25!/8^(7,) it is exactly divided by 8^(7.)

Therefore The correct answer is 7.

Alternate MethodCalculation:

Take out the 2's factor from 25!

=> 25/2 = 12

=> 12/2 = 6

=> 6/2 = 3

=> 3/2 = 1

=> 1/2 = 0

Now add all the factors of '2' = 12 + 6 + 3 + 1 + 0 = 22

=> Factors of 2 in 25! = 2^{22} = 8^7 × 2

Therefore The correct answer is 7.

Q52. Answer: (a) 45098

Calculation:

157 × 157 + 143 × 143 = $(150 + 7)^2 + (150 – 7)^2$

=> $(150)^2 + (7)^2 + 2 × 157 × 7 + (150)^2 + (7)^2 – 2 × 157 × 7$

=> $2 × (150)^2 + 2 × (7)^2$ = 45000 + 98 = 45098

Therefore The correct answer is 45098.

Q53. Answer: (b) 76

Given:

y - (1/y) = 4

Concept used:

If y - 1/y = k than

=> $y^3 - (1/y^3) = k^3 + 3k$

Calculation:

=> y - (1/y) = 4

Here, k = 4

=> $y^3 – 1/y^3$

=> $4^3 + 3 × 4$

=> 64 + 12 = 76

Therefore The correct answer is 76.

Q54. Answer: (d) 4√2

Given:

a = √(5 + 2√2);

b = √(5 – 2√2)

Calculation:

=> $a^2 – b^2 = (√(5 + 2√2))^2 – (√(5 – 2√2))^2$

=> 5 + 2√2 – 5 + 2√2

=> 4√2

Therefore The correct answer is 4√2.

Q55. Answer: (d) All options are correct

Two traingels ABC and PQR are congruence as per SAS when two sides and an angle of both the triangles are same

As per SAS,

AB = PQ, BC = QR and angle B = angle Q

To prove both triangles are congruence, it is required to that all the option should follow. So answer is All options are correct

Q56. Answer: (b) Circumcenter, Circumcenter

"Circumcenter" is the point at which the perpendicular bisectors of the sides meet and the center of the circle that circumscribes the triangle is "Circumcenter".

Q57. Answer: (a) 150

Let the no. is a

60% of a + 60 = a

=> 3/5 × a + 60 = a
=> a – 3/5 × a = 60
=> 2/5 × a = 60
Therefore a = 150

Q58. Answer: (b) 4512

Given:
Ratio of salary of u : v : w = 8 : 7 : 13
Calculation:
Salary of u = 8k, v = 7k and w = 13k
Difference of salary of v and w = 3384
=> 13k – 7k = 3384
=> k = 564
Therefore Salary of u = 8k = 8 × 564 = Rs. 4512

Q59. Answer: (b) 80

Given:
Total mixture = 80 liters
Calculation:
Let the quantity of new mixtures be 'a' liters.
Acid in the mixture = 20% of 80 litre = 16 litres
Water in the mixture = 80 – 16 = 64 litres
In the new mixture, the water is only 40% and acid is 60%
Water in a new mixture = 40% of a litres = 64 litres
=> 2/5 × a = 64 litres
=> a = 160 liters
Acid in new mixture = 160 – 64 = 96 liters
Acids that should be added = 96 – 16 = 80 liters
Therefore The correct answer is 80 liters.
Alternate MethodCalculation:

	Water	Acid
20% acid	4	1
60% acid	2 × 2 = 4	3 × 2 = 6

Now,
=> (4 + 1) = 5 units = 80 liters
=> 1 unit = 16 liters
=> (6 - 1) = 5 units = 16 × 5 = 80 liters
Therefore The correct answer is 80 liters.

Q60. Answer: (b) 132

Calculation:
Cost of 10 shirts on 1^(st) day = 10 × 150 = Rs.1500
Cost price of a shirt on 2^(nd) day = 150 – 30 = Rs.120
Number of shirts purchased on 2^(nd) day = 1800/120 = 15
Total expenditure = 1500 + 1800 = 3300
Total shirts = 10 + 15 = 25
Average cost of a shirt = 3300/25 = Rs.132
Therefore The correct answer is Rs.132.

Q61. Answer: (a) 11

Given:
S.I. = 1380.5

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P = 50200
Time = 3 months = 1/4 year
Calculation:
S.I = (P × R × T)/100
=> 1380.5 = (50200 × R × 1) / (100 × 4)
Therefore R = 11%

Q62. Answer: (a) 8.33

Given:
Selling of 120 bottles,
Profit equal to the cost price of 10 bottles
Concept used:
C.P = S.P – P
P% = (P/C.P) × 100
Where,
C.P → Cost price
S.P → Selling price
P → Profit
Calculations:
120C.P = 120S.P – 10C.P
=> 130C.P = 120S.P
=> C.P/S.P = 120/130 = 12/13
Profit = 13 – 12 = 1
Profit % = (1/12) × 100 = 8.33%
Therefore Profit % is 8.33%

Q63. Answer: (b) 66.66

Given:
Marked Price of shirt = Rs.1800
Retailer's S.P = Rs.1800
Calculation:
Retailer's cost Price of shirt = (100 – 40)% of 1800
=> 60% of 1800
=> 3/5 × 1800 = 1080
Profit % = (S.P. – C.P.) /(C.P.) × 100
=> (1800 – 1080) /1080 × 100
=> 2/3 × 100 = 66.66%
Therefore The correct answer is 66.66%.

Q64. Answer: (b) 1.278

Given:
x = 0.139
Calculation:
=> $\sqrt{(4x^2 + 4x + 1)}$
=> $\sqrt{(2x + 1)^2}$
=> 2x + 1
putting the value of x in the equation:
=> 2 × 0.139 + 1 = 1.278
Therefore The correct answer is 1.278.

Q65. Answer: (c) 7/18

Given:
Rahul can complete a work = 18 days

Sonu can complete the work = 15 days
Formula used:
Efficiency × Time = Total work
Calculation:
Time taken by Rahul to complete the work = 18 days
Time taken by Sonu to complete the work = 15 days
Let the total work = LCM of 18 and 15 = 90 units
Efficiency of Rahul = 90/18 = 5 units/day
Efficiency of Sonu = 90/15 = 6 units/day
Total Efficiency of Rahul and Sonu = 6 + 5 = 11 units/day
Work was completed by them in 5 days = 11 × 5 = 55 units
Remaining work = 90 – 55 = 35 units
Remaining work = 35/90 = 7/18
Therefore The correct answer is 7/18.

Q66. Answer: (b) 440

Given:
The speed of the train = 35 m/s
Length of tunnel = 960 m
Time to cross the tunnel = 40 s
Formula used:
Distance = Relative speed × Time
Calculation:
Distance = Relative speed × Time
=> Length of the train + Length of the Tunnel = Speed of train × Time
=> Length of train + 960 = 35 × 40
=> Length of train = 1400 – 960 = 440 m
Therefore The correct answer is 440 m.

Q67. Answer: (b) 2015

Exports in 2012 compared to previous year = 35 – 50 = -15
Exports in 2013 compared to previous year = 60 – 35 = 25
Exports in 2014 compared to previous year = 45 – 60 = -15
Exports in 2015 compared to previous year = 95 – 45 = 50
Exports in 2016 compared to previous year = 85 – 95 = -10
Exports in 2017 compared to previous year = 55 – 85 = -30
So, required answer is 2015

Q68. Answer: (a) 10

Therefore Difference in the exports between 2012 and 2014 = 45 – 35 = 10

Q69. Answer: (d) 10%

Therefore The exports in 2014 were lesser than that in 2011 by = (50 – 45)/50 × 100 = 10%

Q70. Answer: (c) 280

Therefore Total exports by the company in last 4 years = 45 + 95 + 85 + 55 = 280 lakh

Q71. Answer: (c) 26

Given:
Perimeter pf rectangle = 68 cm
Breadth of rectangle = 10 cm
Formula used:
Perimeter of rectangle = 2 × (Length + breadth)
Calculation:

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Perimeter of rectangle = 68
=> 2 × (Length + breadth) = 68 cm
=> 2 × (L + 10) = 68
=> 2L + 20 = 68
=> L = 24
Now,
$D^2 = L^2 + B^2$
=> $D^2 = 24^2 + 10^2$
=> $D^2 = 576 + 100$
=> $D^2 = 676$
=> D = 26 cm
Therefore The correct answer is 26 cm.

Q72. Answer: (a) 308

Given:
Radius of semi-circle = 14 cm
Formula used:
Area of semi-circle = 1/2 × πr2
Calculation:
Area of semi-circle = $1/2 \times \pi r^2$
=> $1/2 \times 22/7 \times 14 \times 14 = 308\ cm^2$
Therefore The correct answer is 308 cm2.

Q73. Answer: (c) 21

Given:
The volume of hemisphere = 2425.5 cm^3
Formula used:
Volume of Hemisphere = $2/3 \times \pi r^3$
Calculation:
Volume of Hemisphere = 2425.5
=> $2/3 \times 22/7 \times r^3 = 2425.5$
=> $r^3 = 9261/8$
=> r = 21/2 cm
Diameter (D) = 2 × 21/2 = 21 cm
Therefore The correct answer is 21 cm.

Q74. Answer: (d) 5/6

Concept used:
Calculation:
sin30° + 1/3 = 1/2 + 1/3 = 5/6
Therefore The correct answer is 5/6.

Q75. Answer: (a) 15/17

Given:
angle E = 90°
Sec D = 17/8
Calculation:
Sec D = 17/8 = DF/DE
By Pythagoras Theorem:
$(DF)^2 = (DE)^2 + (EF)^2$
=> $(17)^2 = (8)^2 + (EF)^2$
=> $(EF)^2 = 289 – 64 = 225$
=> EF = 15

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Cos F = EF/DF = 15/17

Therefore The correct answer is 15/17.

Q76. Answer: (b) Balance of Payment

Visible and invisible items of debit and credit are the part of the balance of payment.

The balance of Payment is a full record of a financial transaction between residents and residents of the rest of the world in a specific year.

It includes current account and capital account.

Current account further includes visible trade, invisible trade, income receipts, and Unilateral transfers to and from abroad.

Capital account includes Investments to/from abroad, Loans to and borrowings from abroad, and Changes in foreign exchange reserves.

Visible items refer to import and export of goods.

Invisible items refer to import and export of services.

Q77. Answer: (c) Third Five Year Plan

The correct answer is Option 3.

Key Points

• Third Five Year Plan was a failure due to India-China war followed by Indo-Pakistan.

• Third Five Year Plan (1961-66) aimed to make India's economy 'self-reliant' and 'self-generating'.

• It has faced a lot of political and economic crisis.

• The Indo-China war (1962) and Indo-Pak war (1965) had exposed the weakness of country's defence sector, so, the good amount of money from the budget was invested in this sector.

• It could not even achieve its growth target of 5.6%

Q78. Answer: (b) Gopala

Key Points

• Gopala was the first ruler of the Pala Dynasty.

• Pala Dynasty was originated in the region of Bengal during the Late Classical Period of the Indian historical era.

• Palas followed the Mahayana and Tantric schools of Buddhism.

• It was founded by Gopala in 750CE.

• He was succeeded by Dharmapala.

Additional Information

• Mahendra Pala: Mahendrapal was the fourth king of the Pala dynasty of the Bengal region of the Indian subcontinent. He was the son of Devpala.

• Dharmapala: He was the second ruler of the Pala Empire of Bengal and Bihar regions in the Indian subcontinent. He was the son and successor of Gopal, the founder of the Pala dynasty.

Q79. Answer: (b) B.P. Wadia

B.P. Wadia operated the first regular trade union in India.

Bahman Pestonji Wadia (1881-1958) was an Indian theosophist and labor activist.

Founded by B.P. Wadia in 1918, the Madras Labour Union is considered to be the first registered trade union in India.

Q80. Answer: (b) 15°

The correct answer is 15°.

Key Points

The Earth moves 15° in an hour.

In 24hrs, the Earth completes one rotation of 360°along its axis.

In 1hr = 360/24 = 15°

Q81. Answer: (c) Uttar Pradesh

The correct answer is Uttar Pradesh.

Key Points

• Uttar Pradesh is the only state that shares its boundaries with maximum states.

• Uttar Pradesh shares its borders with as many as 9 states/Union Territories,

• It also shares an international border with Nepal.

Additional Information

• Assam is the only Indian State which shares the border with 7 states.

• Assam bordering states – West Bengal in the west, Arunachal Pradesh in the northeast, Nagaland, and Manipur in east, Mizoram, Tripura and Meghalaya in the south.

• Uttar Pradesh is the Indian State which shares its border with 8 states and 1 union territory which is maximum.

• Delhi, Haryana, Himachal Pradesh, and Uttarakhand in North, Bihar Jharkhand in the east, Rajasthan in West and Madhya Pradesh and Chattisgarh in the south.

• West Bengal In the north it is bounded by the state of Sikkim and the country of Bhutan.

• To the North-East, it is bounded by the state of Assam.

• To the East, it is bounded by the country of Bangladesh.

• To the south, it is bounded by the Bay of Bengal.

• To the South-West, it is bounded by the state of Odisha.

• To the West, it is bounded by the states of Jharkhand and Bihar and the North-West, it is bounded by the country Nepal.

• Manipur shares it border with 3 states Nagaland, Mizoram, and Assam.

• Uttrakhand shares its borders with Tibet in the north, Uttar Pradesh in the south, Nepal in the east, Haryana in the west, and Himachal Pradesh in the North West.

Q82. Answer: (d) Yamini Krishnamurthy

Yamini Krishnamurthy is NOT a dancer of Odissi.

Born in 1940, a dancer of Bharatanatyam and Kuchipudi styles of dancing.

She is honored with PadmaShree (1968) PadmaBhushan (2001), and Padma Vibhushan (2016).

Q83. Answer: (b) Everybody Counts

'Everybody counts' was the slogan of World AIDS Day which was celebrated on December 01, 2017.

World AIDS Day is an international day, celebrated every year on December 1, to raise awareness about AIDS and show solidarity with HIV-positive patients.

It was first observed in 1988.

Q84. Answer: (d) Economics

Prof. Richard H. Thaler was awarded the Nobel Prize 2017 in Economics.

Thaler has made a remarkable contribution to Behavioural Economics.

He has given a "realistic analysis of how people think and behave when making economic decisions."

Q85. Answer: (b) Shanghai

In terms of population, Shanghai is the largest city of China.

As of 2017, Shanghai has the population of over 24 million.

Q86. Answer: (c) Metal ion at first and non-metal ion at the second position

In a chemical formula, the Metal ion is at first and non-metal ion at the second position

Metals tend to form a cation, while non-metals tend to form anions.

When a metal reacts with a nonmetal (or a polyatomic ion), usually Ionic compounds are formed.

While writing the formula of ionic compounds, the cation is written first, followed by the anion.

For example- Na^+Cl^-, MgO, CaBr2, etc.

Q87. Answer: (a) CO2

• Lime water becomes milky due to CO_(2.)

• CO2 turns lime water milky, due to the formation of CaCO3(calcium carbonate).

• The chemical reaction is as follows:

Ca(OH)2 + CO2 => CaCO3 + H2O

Q88. Answer: (d) Comptroller and Auditor General of India

According to Dr. B. R. Ambedkar, Comptroller and Auditor General of India (CAG) shall be the most important officer under the Constitution of India.

Article 148 – 151 of the Constitution of India mentions about the CAG.

He is the head of the Indian Audit and Accounts Department.

He controls the financial system of the country, both at Centre, and at State level.

Q89. Answer: (d) Part XV

The correct answer is Part XV.

Key Points

• Part XV

• rticle 324 to 329 of the constitution deals with powers, function, tenure, eligibility, etc of the commission and the member.

• Part XV of the Indian constitution deals with elections, and establishes a commission for these matters.

• The Election Commission was established in accordance with the Constitution on 25th January 1950.

Article 324	**Superintendence, direction and control of elections to be vested in an Election Commission.**
Article 325	No person to be ineligible for inclusion in, or to claim to be included in a special, electoral roll on grounds of religion, race, caste or sex.
Article 326	Elections to the House of the People and to the Legislative Assemblies of States to be on the basis of adult suffrage.
Article 327	Power of Parliament to make provision with respect to elections to Legislatures.
Article 328	Power of Legislature of a State to make provision with respect to elections to such Legislature.
Article 329	Bar to interference by courts in electoral

Additional Information

• Part XII

• Article 268 to 293 in Part XII deals with the financial relations between Centre and States.

• The constitution of India has divided the legislative, executive, and financial powers between the centre and the states.

• It gives the constitution a federal character whereas the judiciary is integrated into a hierarchical structure.

• Part XIII

• Part XIII - consists of Articles on trade and Commerce inside the territory of India.

• Articles 301 - 305 on Freedom of Trade and Commerce.

• Article 306 - Repealed - Replaced by the Constitution (Seventh Amendment) Act, 1956.

• Part XIV

• "Services under the Union and the States" comes under Part XIV of our constitution.

• It comprises provisions about All India Services, Central services and state services.

• Part XIV of our constitution contains the article-308 to 323.

• However, Part XIV(a) is about "Tribunals".

Q90. Answer: (d) No option is correct.

The correct answer is No option is correct.

• At synapses of the Neuron, the information is transmitted in the chemical form, called as Neurotransmitter.

Key Points

• Synapse:

• It is the junction between 2 neurons.

• There is a very narrow gap of about 20nm between neurons called the synaptic cleft.

• An action potential cannot cross the synaptic cleft, so nerve impulses are carried by chemicals called neurotransmitters.

• The structure of a synapse:

• At the synapse, the presynaptic neuron communicates with the postsynaptic neuron.

• At the end of the presynaptic neuron, there are synaptic knobs.

• Synaptic knobs contain many mitochondria and large amounts of ER to manufacture neurotransmitters.

• There is a tiny gap known as the synaptic cleft

• Functions of a synapse:

• A single impulse is transmitted to a number of different neurons creating simultaneous responses.

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• A number of impulses are combined at a synapse allowing stimuli from different receptors to interact for a single response.

Q91. Answer: (d) All options are correct

• Transpiration is the evaporation of water from the top of the plant, creating tension in the xylem ducts and as a result, pulling up water through the xylem to long heights.

• Transpiration in plants helps in Absorption and upward movement of water, and minerals dissolved in water, and temperature regulation.

Q92. Answer: (b) Sankalp se Siddhi

Sankalp se Siddhi was organized by the Central Government in August 2017 to commemorate the 75^(th) anniversary of Quit India Movement.

Quit India Movement was launched by Mahatma Gandhi on 8^(th) August 1942, demanding to end the British Raj from India.

PM Modi described this month as the month of revolution as on August 1, 1920 non-cooperation movement was launched, on August 8, 1942, and finally on August 15, 1947, India finally got independence.

Through Sankalp se Siddhi, PM Modi calls on people to take a pledge to make India free from poverty, corruption, discrimination, terrorism, etc.

Q93. Answer: (d) Parker Solar Probe

• Parker Solar Probe is the name of the probe to be launched by NASA in 2018 to explore the Sun's outer atmosphere.

• It has been designed and built by Johns Hopkins University Applied Physics Laboratory and named after Physicist, Eugene Parker.

• This spacecraft will travel into Sun's atmosphere within 8.5 Solar radii.

Q94. Answer: (c) Rural

'R' stands for 'rural' in 'RIDF'.

RIDF stands for Rural Infrastructure Development Fund.

National Bank of Agriculture and Rural Development (NABARD) sanctioned a loan assistance of Rs. 1350 crore to Rajasthan under the 'RIDF' for the creation of rural infrastructure in Rajasthan.

Q95. Answer: (b) Confiscate

On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. It will empower the government to confiscate the property of economic offenders and defaulters who flee from India.

The Bill will be applicable to cases where the value of offence is more than 100 crore.

The Bill will further allow Financial Intelligence Unit (FIU) to declare the person as the fugitive economic offender and then file an application against him to confiscate their assets.

Q96. Answer: (d) 40

CONCEPT:

Work done (W): When a force is applied on a body and there is a displacement of the body in the direction of force then the work is said to be done by the force.

• The SI unit of work is Joule.

• 1 Joule (J) = 1 Nm

Work (W) = Force (F) × Displacement (S)

Power (P): The rate of work done is called power.

• The SI unit of power is the watt (W).

Power (P) = work done (W) / time (t)

P = W / t = J / s

CALCULATION:

Given that:

Work (W) = 120 Joules

Time (t) = 3 seconds

The formula of Power,

P = W/t = 120/3 = 40 Watts

Power of Engine = 40 Watts

Q97. Answer: (c) its mass

Quantitatively, the inertia of an object is measured by its mass.

EXPLANATION:

According to Newton's First Law of Motion-

• "An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force."

• This tendency of objects to resist change in their state of motion is referred to as inertia.

• This tendency depends on the mass of the object; the more massive an object is, the more it'll have a tendency to resist change in its state of motion.

Q98. Answer: (a) An anemometer

The correct answer is An anemometer.

Key Points

• Anemometer: It is an instrument used to measure the speed of the wind, which is a common weather station instrument, or to calculate any form of current gas.

• The term is derived from the Greek word anemos meaning wind which was first explained by Leon Battista Alberti who was an Italian artist and architect in the year 1450.

• He used a mechanical anemometer which was placed perpendicular to the wind direction such that the wind velocity as indicated by the angle of inclination of the disc.

• Types of anemometer:

• Cup anemometer: This consists of four hemispherical cups that are mounted on one end of the horizontal arms at equal angles on a vertical shaft.

• Hotwire anemometer: This consists of thin wire which is heated up to a certain temperature slightly more than atmospheric temperature.

• Windmill anemometer: This is a mechanical device similar to the regular windmill used to calculate the velocity of the wind. It consists of the axis of rotation running parallel to the direction of the wind.

• Laser Doppler anemometer: A beam of light is used which is further split into two beams. The velocity is determined by calculating the amount of light that has been reflected.

• Sonic anemometer: Sound waves from this anemometer are used to obtain the speed of the wind. These waves are made to pass through the transducer. These find applications in aircraft and scientific wind turbines.

Additional Information

• Manometers are devices in which columns of a suitable liquid are used to measure the difference in pressure between two points or between a certain point and the atmosphere.

• An odometer is a device that is used for measuring the distance traveled by a vehicle.

• A barometer is a scientific instrument used to measure atmospheric pressure, also called barometric pressure.

Q99. Answer: (d) A, B and C

All the options are correct.

The Table Tennis 2017 ITTF Men's World Cup was held in Liège, Belgium, from 20-22 October 2017 in which Germany's Dimitrij Ovtcharov won his first World Cup.

Giannis Antetokounmpo is a Greek professional basketball player, who has been playing for Milwaukee Bucks since 2013. In 2017, Giannis Antetokounmpo played for the NBA team,Milwaukee Bucks. The Bucks, however, were eliminated from the playoffs.

The United Arab Emirates hosted the 2017 Indoor Cricket World Cup, where Australia won the title in both men and women division.

Q100. Answer: (b) Gutter

• Gutter refers to the space allotted for binding, so as to bind the pages after printing.

• Gutter margin can be added to side margin or on the top of the page where it is to be bind.

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