SSC CHSL Previous Paper 42 (Held On: 22 March 2018 Shift 2) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) intellijent
(b) intelligent
(c) inteligent
(d) intelijent

Q2. 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.

So apart from having

A- colleagues would go out for tea at periodic intervals

B- the routine coffee served

C- from the cafeteria my

(a) BAC
(b) BCA
(c) ACB
(d) ABC

Q3. 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'.

My father (were standing) in the balcony, his face clenched in a storm of emotions.

(a) was standing
(b) was stand
(c) was stood
(d) no improvement

Q4. 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'.

Many countries and States (is debating) a ban on plastic bags or taxing their use.

(a) are debating
(b) are debated
(c) is debated
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Carry out a task clumsily or incompetently

(a) Bungle
(b) Adept
(c) Apt

(d) Adroit

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

A person who moves stealthily about or loiters near a place with a view to committing a crime

(a) Scrupulous
(b) Prowler
(c) Veracious
(d) Unfeigned

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

A lot on your plate

(a) A greedy person will collect more food than he can eat.
(b) A hungry person will devour if presented with food.
(c) To have a large number of problems to deal with.
(d) To be an expert in multi-tasking.

Q8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Heave a sigh of relief

(a) To suddenly feel very happy because something unpleasant has not happened or has ended.
(b) Be exhausted after a gruelling physical task.
(c) Get trapped in a tricky situation which you could have escaped easily.
(d) Feel sad that the good times have ended.

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 dynamic society everything is provided for by law and only a few things are _____ to politicians. The universe is governed ____ law. The inverse square law _____ the earth in its orbit and the law of atomic fusion keeps the sun shining ____ the whole earth. Likewise, the law should govern a nation where the judge, the police and the civil servant dispense _____to the citizen.

Q9. servant dispense _____ to the citizen.

(a) justify
(b) justly
(c) justice
(d) justifies

Q10. the sun shining _____ the whole earth.

(a) for
(b) of
(c) from
(d) form

Q11. square law _____ the earth in its

(a) keep
(b) keeping
(c) keeps
(d) kept

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Q12. The universe is governed _____ law.

(a) at
(b) to
(c) by
(d) so

Q13. a few things are _____ to politicians.

(a) right
(b) leave
(c) with
(d) left

Q14. 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) Promounciation
(b) Prononciation
(c) Pronunciation
(d) Pronuncieation

Q15. 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.

He replied, “I cannot do so.”

(a) He said he could not do so.
(b) He replied that he could not do so.
(c) He replied that he cannot did so.
(d) He replied that he could never do so.

Q16. 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.

They selected the red car.

(a) The red car is select.
(b) The red car is chosen by them.
(c) The red car by them is selected.
(d) The red car was selected by them.

Q17. Rearrange the parts of the sentence in correct order.

Most of

P: had urban backgrounds

Q: Ministers of Japan

R: the erstwhile Prime

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

Q18. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Analogous

(a) Similar
(b) Parallel
(c) Related
(d) Disagreeing

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Delectation

(a) Sorrow
(b) Delight
(c) Elation
(d) Rapture

Q20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Levity

(a) Gravity
(b) Funniness
(c) Beloved
(d) Baleful

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Consternation

(a) Dismay
(b) Happiness
(c) Composure
(d) Assurance

Q22. 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.

God has created all human beings and _____ them with certain qualities.

(a) disapproved
(b) rejected
(c) vested
(d) uncovered

Q23. 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.

He has not submitted his assignment _____.

(a) now
(b) yet
(c) then
(d) until then

Q24. 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'.

From the perspective of positive psychology, mental (1)/ health may include an individual's ability to create a balance (2)/ between life activities and efforts to achieve psychology resilience. (3)/ No error (4)

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

Q25. 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 few crowd (1)/ was not surprising (2)/ considering the publicity involved. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

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

Circumference : Circle :: ? : ?

(a) Perimeter : Volume
(b) Square : Area
(c) Sphere : Circle
(d) Perimeter : Rectangle

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

13 : 23 : : 37 : ?

(a) 40
(b) 46
(c) 47
(d) 43

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

ACE : KMO : : BDF : ?

(a) LNO
(b) MPO
(c) LNP
(d) NPQ

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

(a) Vehicle - Car
(b) Scooter - Vehicle
(c) Truck - Vehicle
(d) Bus - Vehicle

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) 7 - 49
(b) 9 - 81
(c) 11 - 121
(d) 15 - 215

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) ABDG
(b) PQSV
(c) JKMQ
(d) NOQT

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

1. Peanut 2. Peaceful 3. Personal 4. Photograph 5. Picture

(a) 43125
(b) 21345
(c) 13245
(d) 32451

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Q33. In the given series, one number is missing. Select the correct alternative from the given options that will complete the series.

9, 11, 14, 16, 19, 21, ?

(a) 24
(b) 26
(c) 25
(d) 27

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

AL, EP, IT, MX, ?

(a) RC
(b) QB
(c) QV
(d) TV

Q35. Six books are kept one above the other. Hindi is just above Sanskrit. The English is between Mathematics and Science. Law is between Hindi and Mathematics. Which book is at the fourth position from the top?

(a) Mathematics
(b) Law
(c) Hindi
(d) English

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

Abettor

(a) Bettor
(b) Wrote
(c) Rot
(d) Abet

Q37. In a certain code language, “TRAVEL” is written as “WVFYIQ”. How is “TABLET” written in that code language?

(a) EWOGYN
(b) NYOGYW
(c) YGWPQM
(d) WEGOIY

Q38. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

RIP, TLT, VOX, XRB, ?

(a) ZTE
(b) AUF
(c) ZUF
(d) ATE

Q39. In the following question, select the missing number from the given series.

24, 26, 28, ?, 32, 34

(a) 29
(b) 30
(c) 31
(d) 36

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Q40. 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) (4, 8, 16)
(b) (9, 18, 36)
(c) (6, 12, 24)
(d) (5, 10, 25)

Q41. In a certain code language, '-' represents '+', '+' represents '×', '×' represents '÷' and '÷' represents '-'. Find out the answer to the following question.

13 - 14 + 15 × 70 ÷ 14 = ?

(a) 4
(b) 2
(c) 47
(d) 6

Q42. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

8 ÷ 2 - 50 × 6 + 16 = 50

(a) • and ÷
(b) • and +
(c) • and ×
(d) ÷ and ×

Q43. If 60 # 40 = 10, 40 # 20 = 6 and 60 # 90 = 15, then find the value of 40 # 30 = ?

(a) 15
(b) 12
(c) 18
(d) 7

Q44. Which of the following terms follows the trend of the given list?

ZYXYXYXY, XWXYXYXY, XYZYXYXY, XYXWXYXY, XYXYZYXY, _____.

(a) XYXYXWXY
(b) XYXYXYXY
(c) ZYXYXYXY
(d) XWXYXYXY

Q45. Two aeroplanes start from the same strip. Aeroplane P flies 65 miles North, then turns left, and flies 45 miles and then lands. In the meanwhile aeroplane Q flies 80 miles West, then flies 40 miles South, then turns to its left, flies 35 miles and lands. Where is aeroplane Q with respect to aeroplane P?

(a) 25 miles South
(b) 105 miles North
(c) 25 miles North
(d) 105 miles South

Q46. 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: All bins are baskets

Statement II: No buckets are bins

Conclusion I: All baskets are buckets

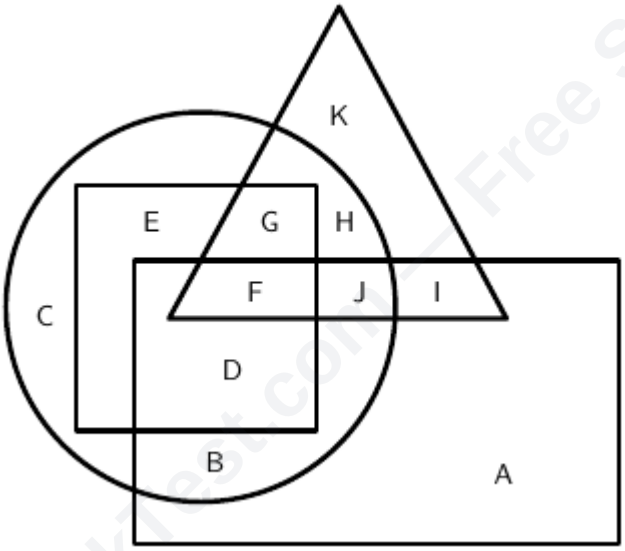
Conclusion II: All buckets are baskets

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow

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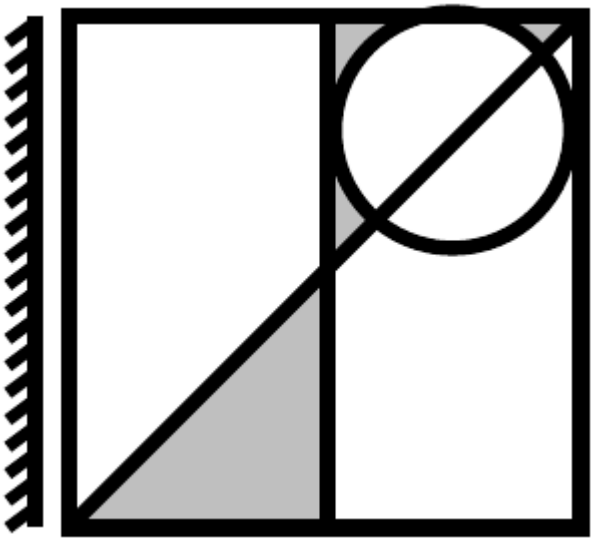
(d) Neither conclusion I nor conclusion II follows

Q47. In the following figure, the rectangle represents Editors, the circle represents Choreographers, the triangle represents Jugglers and square represents Football players. Which set of letters represents Editors who are neither Jugglers nor Football players?

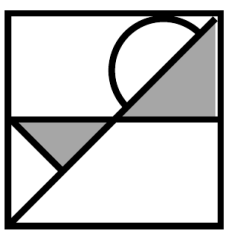


(a) DF
(b) FJI
(c) DB
(d) AB

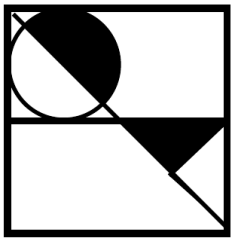
Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



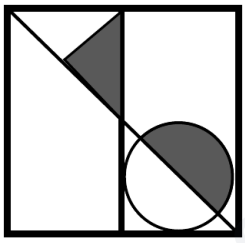
(a)



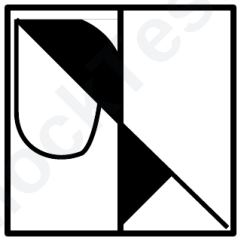
(b)



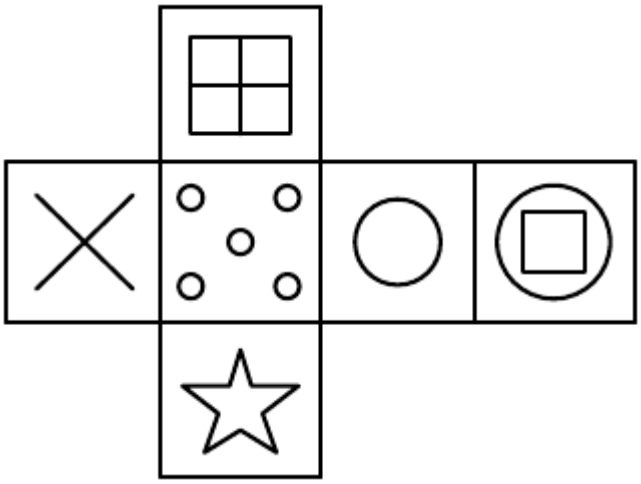
(c)



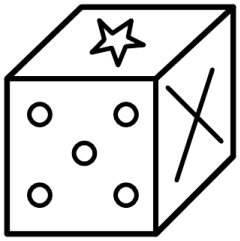
(d)



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

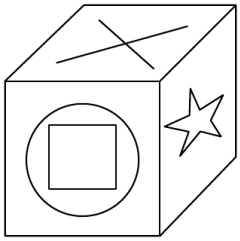


(a)

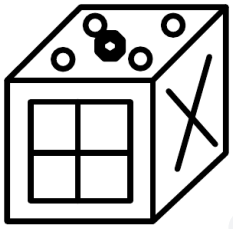


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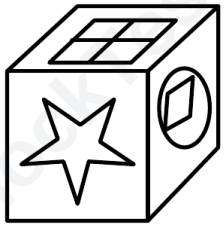
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The set 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 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, ‘M’ can be represented by, 31, 43 etc and ‘W’ can be represented by 78, 97 etc. Similarly, you have to identify the set for the word ‘BODY’.

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

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

(a) 41, 77, 14, 89
(b) 11, 67, 34, 67
(c) 13, 75, 42, 67

(d) 32, 65, 30, 87

QUANTITATIVE APTITUDE

Q51. If 196/0.196 = 19.6/x then what will be the value of x?

(a) 1.96
(b) 10.96
(c) 0.0196
(d) 0.196

Q52. 1/33 of 1/66 of 1/3 of 1/66 of 10000 of a number will be what percentage of that number?

(a) 2.32
(b) 1.32
(c) 0.232
(d) 0.0232

Q53. What is the value of $(6x^2 - 5y^2)(6x^2 + 5y^2)$, if $x = 1/(\sqrt{3})$ and $y = 1/(\sqrt{5})$?

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

Q54. If a (x) b = (a + b) (a × b), then find the value of 6 (x) 5.

(a) 110
(b) 220
(c) 330
(d) 440

Q55. Angles of the triangle are in the ratio of 1 : 2 : 3. Choose the correct triangle for the given ratio.

(a) Equilateral
(b) Isosceles
(c) Right angle
(d) Obtuse angled

Q56. If the diameter of the two circles is 6 units and 10 units and a centre distance of 8 units. Calculate the number of common tangents that can be drawn to both the circle.

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

Q57. A mixture of 240 litres of juice and contains 15% water. How much more water (in litres) should be added to this so that the strength of water will become 25% in the new mixture?

(a) 28
(b) 32
(c) 26
(d) 34

Q58. The sum of the present ages of a father and his son is 126 years. 8 years ago their respective ages were in the ratio of 7 : 4. After 7 years what will be the ratio of ages of father and son?

(a) 23 : 19
(b) 17 : 11
(c) 27 : 20
(d) 34 : 23

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Q59. The ratio of spirit and water in the two vessels is 5 : 1 and 3 : 7 respectively. In what ratio the liquid of both the vessels should be mixed such that a new mixture containing half spirit and half water is obtained?

(a) 3 : 5
(b) 5 : 7
(c) 1 : 1
(d) 4 : 7

Q60. 10 Consecutive numbers are given. If the average of the two numbers given in the middle is 13.5, then what is the sum of the first 6 numbers?

(a) 65
(b) 59
(c) 69
(d) 80

Q61. A sum of Rs 4000 becomes Rs 7000 in 6 years at simple interest. If the rate of interest becomes double of itself, then what will be the amount (in Rs) after 6 years?

(a) 8500
(b) 9000
(c) 8000
(d) 10000

Q62. If the selling price of 39 articles is equal to the cost price of 42 articles, then what will be the profit percentage?

(a) 8.33
(b) 7.69
(c) 9.09
(d) 11.33

Q63. The marked price of a trouser is twice of the cost price. To earn 36% profit, what should be the value of discount (in percentage)?

(a) 33
(b) 32
(c) 34
(d) 36

Q64. What is the simplified value of (√5 + √4)/(√5 - √4) + (√5 - √4)/(√5 + √4) ?

(a) 9
(b) 10
(c) 18
(d) 20

Q65. P can make a table in 16 days while Q can make it in 20 days. Q started the work and did that work for 5 days. In how many days P can complete the remaining work?

(a) 10
(b) 12
(c) 15
(d) 18

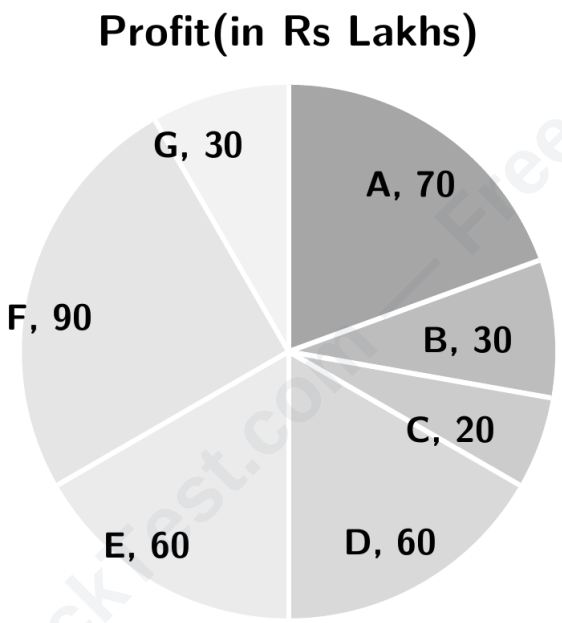
Q66. A boat covers a distance of 14 km upstream and 16 km downstream in 9 hours. It covers a distance of 12 km upstream and 40 km downstream in 11 hours. What is the speed (in km/hr) of the boat in still water?

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

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Directions

Direction: The pie chart shows the share in profits of the year 2017 of seven partners in a business. Study the diagram and answer the following questions.



Q67. Which partner got the second highest share in profits?

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

Q68. What is the total Profit (in Rs. lakhs) of the business of the year 2017?

(a) 400
(b) 300
(c) 360
(d) 350

Q69. The measure of the central angle of the sector representing share in profits of partner E is _____ degrees.

(a) 30
(b) 60
(c) 45
(d) 90

Q70. If the business makes Rs. 45 lakh profit which is distributed between the partners how much does C get (in Rs lakhs)?

(a) 3
(b) 2.5
(c) 4
(d) 2

Q71. The length and breadth of a rectangle are 15 cm and 8 cm respectively. Calculate its perimeter (in cm).

(a) 46
(b) 92
(c) 35
(d) 70

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Q72. If the area of a semi-circle is 693 cm², then find its radius (in cm).

(a) 42
(b) 27
(c) 21
(d) 54

Q73. Find the curved surface area (in cm²) of a right circular cone of diameter 24 cm and slant height 14 cm.

(a) 792
(b) 728
(c) 528
(d) 493

Q74. ΔPQR is right angled at Q. If mangle R = 30°, then find the value of (cosP - 1/3).

(a) 1/6
(b) (2√2-1) /√2
(c) -1/√3
(d) (√3-4) /2√3

Q75. In ΔABC measure of angle B is 90°. If cot A = 8/15, and AB = 0.8 cm, then what is the length (in cm) of side BC?

(a) 1.7
(b) 2
(c) 1.5
(d) 2.5

GENERAL AWARENESS

Q76. Which of the following is necessary for a natural monopoly?

(a) Economies of scale
(b) A high proportion of the total cost as the cost of capital goods
(c) Very small market
(d) All options are correct.

Q77. In which of the following areas is the public sector most dominant in India?

(a) Organised term lending financial institutions
(b) Transport
(c) Commercial Banking
(d) Steel production

Q78. The deepest lake of the world is _____.

(a) Aral Sea
(b) Caspian Sea
(c) Baikal
(d) Dead Sea

Q79. Which of the following is correctly matched?

(a) Lonar - Madhya Pradesh
(b) Nikki - Gujarat
(c) Kolleru - Andhra Pradesh
(d) Pulicat - Kerala

Q80. Where is the tomb of Sher Shah located?

(a) Sasaram
(b) Delhi
(c) Kalinger
(d) Sonargaon

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Q81. Which of the following governor generals used to call himself as Bengal Tiger?

(a) Lord Clive
(b) Warren Hastings
(c) Lord Cornwallis
(d) Lord Wellesley

Q82. Syadvada was the fundamental basis of which religion?

(a) Buddhism
(b) Jainism
(c) Vaishnavism
(d) Shaivism

Q83. According to the latest report by UN Women and the UN Development Programme (UNDP), released in November 2017, which region has been ranked as the world's most violent region for women?

(a) Latin America and the Caribbean countries
(b) Sudan
(c) Gulf Countries
(d) South East Asian Countries

Q84. Who won the title of Miss World 2017?

(a) Stephanie Hill
(b) Andrea Meza
(c) Manushi Chhillar
(d) Stephanie Del Valle

Q85. What is the national animal of Bangladesh?

(a) Royal Bengal Tiger
(b) Python
(c) Goat
(d) Buffalo

Q86. In the modern periodic table while going from top to bottom in a group _____.

(a) the size of an atom increases
(b) the size of an atom decreases
(c) ionisation energy of an atom increases
(d) size and ionisation energy of an atom increases

Q87. Which of the following is NOT a compound?

(a) Ammonia
(b) Milk
(c) Sodium chloride
(d) Chalk

Q88. According to Article 75 of Indian Constitution, the ministers are collectively responsible to the Parliament in general and to the _____ in particular.

(a) People
(b) Lok Sabha
(c) Rajya Sabha
(d) President

Q89. Which among the following comes under Concurrent List of Indian Constitution?

I. Marriage and Divorce
II. Electricity
III. Labour Welfare

(a) Only I

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(b) Only II
(c) Both I and II
(d) All I, II and III

Q90. Which are the special proteins in muscles that contract and relax to cause movement?
(a) Contractile protein
(b) Receptor protein
(c) Structural protein
(d) Enzymatic protein

Q91. Plants having a body that is differentiated into roots, stems and leaves and have a specialized tissue for the conduction of water and other substances, fall in which group?
(a) Bryophyta
(b) Thallophyta
(c) Pteridophyta
(d) All options are correct.

Q92. In January 2018, 'Electoral Bonds' Scheme was launched. Under this scheme, the electoral bonds will be available at specified branches of _____.
(a) Bank of Baroda
(b) State Bank of India
(c) Punjab National Bank
(d) Bank of India

Q93. By using which foam the Researchers from Indian Institute of Technology – Bombay have made a low-cost piezoresistive vibration sensor?
(a) Only Polyurethane
(b) Only Polyethylene
(c) Both Polyurethane and Polyethylene
(d) Neither Poly urethane nor Polyethylene

Q94. SEBI is evaluating whether ICO (Initial Coin Offerings) can be brought under its purview. ICO is related to _____.
(a) Dollars
(b) Pounds
(c) Rupees
(d) Cryptocurrency

Q95. What was India's rank in the Educational Attainment pillar as per the Global Gender Gap report 2017?
(a) 139
(b) 112
(c) 141
(d) 15

Q96. A body is initially moving with a velocity of 10 m/s. It undergoes an acceleration of 2 m/s^2 for 5 seconds. Find the displacement (in m) of this body in these 5 seconds.
(a) 25
(b) 37.5
(c) 50
(d) 75

Q97. 1 watt is equal to 1 _____.
(a) J s^(-1)
(b) J s
(c) J s^(-2)
(d) J s^2

Q98. Air _____ are the substances which contaminate the air.

(a) Reactants
(b) Irritants
(c) Resistants
(d) Pollutants

Q99. Which of the statements given below are correct?

A) Rafael Nadal won the Tennis 2017 French Open Men's Singles.
B) In 2017, Valentino Rossi raced in MotoGP for Ducati.
C) In 2017, Marc Márquez raced in MotoGP for Honda.

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

Q100. In HTML, _____ is at the bottom of the page and usually contains disclaimers, copyright information etc.

(a) Header area
(b) Menu bar
(c) Body of the page
(d) Footer area

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) intelligent

The correct answer is intelligent.

Key Points

Let's look at the meaning of the correct word.

• Intelligent: Having or showing intelligence; especially of a higher degree.
• Example: Labradors are highly intelligent dogs.

Thus from the given points and example, it is clear that the correct answer is intelligent.

Q2. Answer: (b) BCA

The correct answer is BCA

Key Points

Reading the above question we find that:

• Clearly, a sentence does not end with the possessive pronoun my.
• Therefore we can eliminate options 1 and 4.

• In option 3 CB is the incorrect sequence. A possessive pronoun is used directly with a noun and not an article.

Therefore from the given options, the correct option is BCA.

Q3. Answer: (a) was standing

The correct answer is was standing.

Key Points

Reading the given sentence we find that:

• My father is a singular noun.

• The helping verb 'were' is used only with plural nouns.

• Therefore we should replace were standing with was standing.

• The helping verb 'was' is used with singular nouns

Additional Information

• In the given sentence the father was performing a continuous action in the past.

• Hence the -ing form of the verb is used here, and the tense is past continuous tense.

Q4. Answer: (a) are debating

The correct answer is are debating.

Key Points

Reading the above sentence we find that:

• Many countries and states denote many individual countries and states, making it plural.

• Therefore the verb in use should also be plural.

• Hence we have to change is debating to are debating.

Therefore the correct answer is are debating.

Q5. Answer: (a) Bungle

The correct answer is Bungle

Key Points

Let's look at the meaning of the words given below.

• Bungle -carry out a task clumsily or incompetently; mismanage; mishandle.

• Adept -very skilled or proficient at something.

• Apt - appropriate or suitable in the circumstances.

• Adroit - clever or skillful.

Thus from the given meaning, it is clear that the correct answer is Bungle.

Q6. Answer: (b) Prowler

The correct answer is Prowler.

Key Points

Let's find out the meaning of following words :-

• Scrupulous - a person or process which is careful, thorough, and extremely attentive to details.

• Prowler - a person who moves stealthily about or loiters near a place with a view to committing a crime.

• Veracious - speaking or representing the truth.

• Unfeigned - genuine; sincere.

Thus from the given points it is clear that the correct answer is Prowler.

Q7. Answer: (c) To have a large number of problems to deal with.

The correct answer is To have a large number of problems to deal with.

Key Points

Let's look at the meaning of the given idiom.

• A lot on your plate: To have a large number of problems to deal with and have barely enough time to deal with other things.

• Example: I can't take that on now; I've got too much on my plate already.

Thus from the given meaning, we can conclude that the correct answer is To have a large number of problems to deal with.

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Q8. Answer: (a) To suddenly feel very happy because something unpleasant has not happened or has ended.

The correct answer is: To suddenly feel very happy because something unpleasant has not happened or has ended.

Key Points

Let's look at the meaning of the given idiom:

• Heave a sigh of relief: to relax because something one has been worrying about is not a problem or danger anymore.

• Example: We both heaved a sigh of relief when she left.

Thus, from the given points we can conclude that the answer is 'To suddenly feel very happy because something unpleasant has not happened or has ended.'

Additional Information

• Heave means to breathe; to gasp.

Q9. Answer: (c) justice

The correct answer is justice.

Key Points

Reading the above sentence we find that:

• The verb 'dispense' is already given which according to sub + verb + obj should be followed by an object i.e a noun or a pronoun.

• In the given options.

• Justly: Is an adverb and cannot be used in the place of a noun/pronoun.

• Justify and Justifies both are verbs and cannot be used in place of a noun.

Therefore the correct answer is justice.

Additional Information

• An adverb is a word that modifies a verb or an adjective.

Q10. Answer: (a) for

Correct option - 1

Here, option 4 is clearly eliminated. Because 'form' is a noun which does not provide meaning to the context. Let's find out the uses of following prepositions :-

for - Used to indicate the use of something.

of - Used for belonging to, relating to, or connected with.

from - used to separate; one place to another.

Here, use of sun is defined. That sun keeps on shining the whole earth. Hence, for is the correct answer.

Q11. Answer: (c) keeps

Correct option - 3

The context has subject "the inverse law" is a singular noun, hence according to sub-verb agreement, singular verb keeps should be used. Thus, option 3 is the correct answer.

Q12. Answer: (c) by

The correct option is 3.

• 'By' is the most appropriate preposition for the sentence.

• Other prepositions make the sentence grammatically incorrect and hence are not the right fit.

Q13. Answer: (d) left

• Correct option - 4

• to leave something to someone means to give someone an authority or responsibility

• Hence, left is the most suitable choice.

• Thus, the correct sentence is: .....'a few things are left to politicians.'

Q14. Answer: (c) Pronunciation

The correct answer is Pronunciation.

Key Points

Let's look at the meaning of the correct option.

• Pronunciation: The way in which a word is pronounced.

• Example: My friend's pronunciation is similar to that of a native speaker.

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Thus the correct answer is Pronunciation.

Q15. Answer: (b) He replied that he could not do so.

Correct option - 2

Here, direct speech is given. So, we convert it into indirect speech. The reporting verb "replied" is in simple past tense and modal verb can is used in inverted commas. So, it changes into simple past of can, i.e. could. Subject I changes into he. Rest of the sentence remains the same. Hence, option 2 is the correct answer.

Q16. Answer: (d) The red car was selected by them.

Correct option - 4

The tense used in active voice is simple past tense. So, while changing it into passive voice form, following pattern is used :-

Object + was/were + V3 + by + Subject.

Hence, option 4 is the correct answer.

Q17. Answer: (b) RQP

The correct answer is RQP

Key Points

Reading the given segments we find that:

• The fixed part of the sentence ends with the preposition of.

• Therefore it should be followed by a noun or a pronoun.

• Thus we can eliminate options 3 and 4 as P starts with a verb.

• Adding the part Q to the fixed part does not yield a coherent and meaningful sentence.

• Thus option 1 can be eliminated.

Therefore the correct answer will be RQP.

The correct sentence is: Most of the erstwhile Prime Ministers of Japan had urban backgrounds.

Q18. Answer: (d) Disagreeing

The correct answer is Disagreeing.

Key Points

Let's look at the meaning of the given word and the correct option.

• Analogous: Comparable in certain respects; agreeing to something.

• Disagreeing: Having or expressing a different opinion.

Thus from the given meanings, it is clear that both the words express the opposite meaning.

Additional Information

Let's look at the meanings of the other given options.

• Similar: Having resemblance in appearance.

• Parallel: Occurring or co-existing at the same time.

• Related: Belonging to the same family, group or type.

Q19. Answer: (a) Sorrow

The correct answer is Sorrow

Key Points

Let's look at the meaning of the given word and the correct option.

• Delectation: Pleasure and delight; elation.

• Sorrow: Deep distress; sadness or regret.

Thus from the given meanings, it is clear that both the words express the opposite meanings.

Additional Information

Let's look at the meanings of the other given words.

• Delight: To be happy and in a state of elation.

• Elation: Great happiness and exhilaration.

• Rapture: A feeling of intense pleasure or joy.

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Q20. Answer: (b) Funniness

The correct answer is Funniness.

Key Points

Let's look at the meaning of the given word and the correct option.

• Levity: the treatment of a serious matter with humour or lack of due respect.

• Funniness: the quality of being laughable and comical.

Thus from the given meanings, we find that both the words express similar meanings.

Therefore the correct answer is Funniness.

Additional Information

Let's look at the meaning of the other given options.

• Gravity: the force that attracts a body towards the centre of the earth, or towards any other physical body having mass.

• Baleful: having a harmful or destructive effect.

Q21. Answer: (a) Dismay

The correct answer is Dismay.

Key Points

Let's look at the meaning of the given word and the correct option.

• Consternation: a feeling of anxiety or dismay, typically at something unexpected.

• Dismay: Concern and distress caused by something unexpected.

Thus from the given meanings, we find that both words express the same meanings.

Additional Information

Let's look at the meaning of the other given options.

• Composure: The state of being calm and in control of oneself.

• Assurance: A positive declaration intended to give confidence.

Q22. Answer: (c) vested

The correct answer is vested.

Key Points

Reading the above sentence we find that:

It is talking about something God gave human beings.

Now let's look at the meaning of the correct option.

• Vested: to give someone the power, property etc.

• Example: The judicial power is vested in a high court and many subordinate courts.

**Thus from the given points, we find that the correct answer is vested.

Additional Information

Let's look at the meaning of the other given options.

Rejected: Dismiss as inadequate or faulty.

Q23. Answer: (b) yet

Correct option - 2

There are certain adverbs which are specifically used in case of present perfect tense. Such as, just now, already, yet, etc. 'Yet' means till now.

Hence, option 2 is the correct answer.

Q24. Answer: (c) 3

Correct option - 3.

Key Points

• Since, word "psychology" is a noun which is directly followed by another noun "resilience". So, replace it with adjective psychological to give a meaningful sentence.

• Hence, option 3 is the correct answer.

Correct Sentence: From the perspective of positive psychology, mental health may include an individual's ability to create a balance between life activities and efforts to achieve psychological resilience.

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Q25. Answer: (a) 1

Correct option - 1

Quantifier "the few" is used for countable noun. For e.g.:- There were the few mangoes on the table.

But, "crowd" is a uncountable noun. Hence, replace the few with the little.

So, part 1 has the grammatical error.

Q26. Answer: (d) Perimeter : Rectangle

'Circumference' forms the boundary of a 'circle', similarly, 'Perimeter' forms a 'Rectangle'.

Hence, the answer is 'Perimeter : Rectangle'.

Q27. Answer: (c) 47

The logic followed here is:

13 + 10 = 23

Similarly, 37 + 10 = 47

Hence, the correct answer is '47'.

Q28. Answer: (c) LNP

The logic followed here is:

A + 10 = K

C + 10 = M

E + 10 = O

Similarly,

B + 10 = L

D + 10 = N

F + 10 = P

Hence, answer is 'LNP'.

Q29. Answer: (a) Vehicle - Car

Here the pattern of relation followed is (Example of Vehicle - Vehicle)

All except 'Vehicle - Car' follows the above pattern of relationships.

Hence, the correct answer is "Vehicle - Car".

Q30. Answer: (d) 15 - 215

Here the pattern of relation followed is (Number - Square of the number)

All except '15 - 215' follows the above pattern of relationships.

A square of 15 is 225.

Hence, the correct answer is "15 - 215".

Q31. Answer: (c) JKMQ

The table shows the place value of the alphabet from A to Z and Z to A.

The pattern/logic/rule followed here is:

1) ABDG →

2) PQSV →

3) JKMQ →

4) NOQT →

Clearly, 'JKMQ' does not follow the same pattern/logic/rule as other three options.

Hence, the correct answer is "JKMQ".

Q32. Answer: (b) 21345

According to the sequence in the English dictionary:

The correct order of the given words is:

2. Peaceful

1. Peanut

3. Personal

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4. Photograph

5. Picture

Hence, the correct answer is "21345".

Q33. Answer: (a) 24

The logic/rule followed here is:

Hence, the correct answer is "24".

Q34. Answer: (b) QB

The table shows the place value of the alphabet from A to Z and Z to A.

The logic/rule followed here is:

Hence, the correct answer is 'QB'.

Q35. Answer: (b) Law

Six books are kept one above the other.

1) Hindi is just above Sanskrit.

HINDI
SANSKRIT

2) The English is between Mathematics and Science.

Case I	**Case II**
SCIENCE	MATHEMATICS
ENGLISH	ENGLISH
MATHEMATICS	SCIENCE

3) Law is between Hindi and Mathematics.

Case I	**Case II**
HINDI	MATHEMATICS
LAW	LAW
MATHEMATICS	HINDI

On combining 1 and 3 we get:

MATHEMATICS
LAW
HINDI
SANSKRIT

Case I of point 3 is not possible because from point 1 we know Sanskrit is below Hindi and hence Law book can't be below Hindi.

Therefore, Case I of statement 3 is eliminated as it violates statement 1.

Again combining the output of statement 1 and 3 with statement 2 we get:

SCIENCE
ENGLISH
MATHEMATICS
LAW
HINDI
SANSKRIT

Case II of statement 3 is eliminated because Law book is below Mathematics and hence due to position crisis we eliminate the case.

Final Solution:

SCIENCE
ENGLISH
MATHEMATICS
LAW
HINDI
SANSKRIT

Law book is at the fourth position from the top.

Hence, the correct answer is "Law".

Q36. Answer: (b) Wrote

Given word: Abettor

Checking each option for the word formation, we get

1. Bettor → A b e t t o r (Bettor will be formed as shown)

2. Wrote → A b e t t o r (Wrote will not be formed as there is no W)

3. Rot → A b e t t o r (Rot will be formed as shown)

4. Abet → A b e t t o r (Abet will be formed as shown)

Thus, Option 2, Wrote, will not be formed from the letters of the given word.

Hence, the correct answer is, "Wrote".

Q37. Answer: (d) WEGOIY

Table showing the positional values of the Alphabet series

The pattern followed here is:

Similarly,

Hence, the correct answer is ‘WEGOIY’.

Q38. Answer: (c) ZUF

Table showing the positional values of Alphabet series.

The pattern that follows here is:

The first, Second and Third letter of each term is shifted by +2, +3, and +4 places.

Hence, the correct answer is, "ZUF".

Q39. Answer: (b) 30

The logic/rule followed here is:

2 is added to each term to get the next term.

Thus, the missing term is 30

Hence, the correct answer is ‘30’.

Alternate Method The logic followed here is,

Thus, the missing term is 30

Hence, the correct answer is ‘30’.

Q40. Answer: (d) (5, 10, 25)

The logic/rule/relation followed here is:

First Number × 2 = Second Number;

Second Number × 2 = Third Number.

Applying the above logic to each option, we get

1) (4, 8, 16) → 4 × 2 = 8; 8 × 2 = 16

2) (9, 18, 36) → 9 × 2 = 18; 18 × 2 = 36

3) (6, 12, 24) → 6 × 2 = 12; 12 × 2 = 24

4) (5, 10, 25) → 5 × 2 = 10; 10 × 2 = 20 ≠ 25

Thus, (5, 10, 25) is the odd one out.

Hence, the correct answer is, "(5, 10, 25)".

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Q41. Answer: (b) 2

Symbol	•	•	×	÷
Meaning	•	×	÷	•

Given equation: 13 - 14 + 15 × 70 ÷ 14 = ?

On replacing the symbol as per the table shown above, we get

13 + 14 × 15 ÷ 70 - 14 = ?

= 13 + 3 – 14

= 16 - 14

= 2

Hence, the correct answer is '2'.

Q42. Answer: (c) • and ×

Given equation:

8 ÷ 2 - 50 × 6 + 16 = 50

Checking for each option, we get

1. + and ÷ → 8 + 2 - 50 × 6 ÷ 16

=> 8 + 2 - 50 × 6 ÷ 16

=> 8 + 2 - 50 × 0.375

=> 8 + 2 - 18.75

=> 10 - 18.75

=> -8.75 ≠ 50

2. - and + → 8 ÷ 2 + 50 × 6 - 16

=> 8 ÷ 2 + 50 × 6 - 16

=> 4 + 50 × 6 - 16

=> 4 + 300 - 16

=> 304 - 16

=> 288 ≠ 50

3. '+ and ×' → 8 ÷ 2 - 50 + 6 × 16

8 ÷ 2 - 50 + 6 × 16

=> 4 – 50 + 96

=> 100 – 50

=> 50 = 50

4. ÷ and × → 8 × 2 - 50 ÷ 6 + 16

=> 8 × 2 - 50 ÷ 6 + 16

=> 8 × 2 - 8.33 + 16

=> 16 - 8.33 + 16

=> 32 - 8.33

=> 23.66 ≠ 50.

Thus, Option 3 (+ and ×) satisfies the given equation after interchanging the signs.

Hence, the correct answer is '+ and ×'.

Q43. Answer: (d) 7

The logic/rule followed here is:

60 # 40 = 10 → 6 + 0 + 4 + 0 = 10;

40 # 20 = 6 → 4 + 0 + 2 + 0 = 6;

and,

60 # 90 = 15 → 6 + 0 + 9 + 0 = 15

Similarly,

40 # 30 → 4 + 0 + 3 + 0 = 7

Hence,the correct answer is '7'.

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Q44. Answer: (a) XYXYXWXY

The logic followed here is,

Z	Y	X	Y	X	Y	X	Y
X	W	X	Y	X	Y	X	Y
X	Y	Z	Y	X	Y	X	Y
X	Y	X	W	X	Y	X	Y
X	Y	X	Y	Z	Y	X	Y
X	Y	X	Y	X	W	X	Y

Thus, the series will be

ZYXYXYXY, XWXYXYXY, XYZYXYXY, XYXWXYXY, XYXYZYXY, XYXYXWXY

Hence, the correct answer is 'XYXYXWXY'.

Q45. Answer: (d) 105 miles South

The path followed by the aeroplane P is shown below,

Aeroplane P flies 65 miles North, then turns left, and flies 45 miles and then lands

and the path followed by the aeroplane Q is shown below,

Aeroplane Q flies 80 miles West, then flies 40 miles South, then turns to its left, flies 35 miles and lands

Combining the paths of aeroplanes P and Q as they have a common starting point, we get

Thus, aeroplane Q is 105 miles South with respect to aeroplane P.

Q46. Answer: (d) Neither conclusion I nor conclusion II follows

The least possible Venn diagram is as follows:

Conclusion I: All baskets are buckets → Does not follow (As all bins are baskets and no bucket is a bin, thus all baskets being buckets is not possible)

Conclusion II: All buckets are baskets → Does not follow (As there is no definite relation between Bucket and Basket, All buckets being baskets is a possibility but not definite)

Thus, none of the conclusions follows.

Hence, the correct answer is, "Neither conclusion I nor conclusion II follows".

Q47. Answer: (d) AB

Editors who are neither Jugglers nor Football players shall be represented by the area bounded by Rectangle excluding the area bound by Square and Triangle.

Thus, the required area will be A and B.

Hence, the correct answer is 'AB'.

Q48. Answer: (d) [figure]

The mirror image of the object when the mirror is placed to the left of the object is shown below,

Hence, the correct answer is "option 4".

Q49. Answer: (d) [figure]

The formatting of the cube from the given unfolded cube is shown below,

From the figure we can conclude:

1) The face of the cube with a star will be opposite to the side with four squares.

2) The side with the cross will be opposite the side with a circle.

3) The side with five small circles will be opposite to the side with a circle and square.

Here in the figure (Option 4) below the face of the cube with a star and side with four squares are adjacent to each other.

Thus, it cannot be made based on the unfolded cube in the question figure.

Hence, the correct answer is, "Option 4".

Q50. Answer: (d) 32, 65, 30, 87

Applying the coding information as per the information given In the question to each option, we get

1) 41, 77, 14, 89 → G, S, A, P

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2) 11, 67, 34, 67 → H, U, L, U

3) 13, 75, 42, 67 → F, T, K, U

4) 32, 65, 30, 87 → B, O, D, Y

Hence, the correct answer is '32, 65, 30, 87'.

Q51. Answer: (c) 0.0196

Calculation:

196/0.196 = 19.6/x

=> 196x = 19.6 × 0.196

=> x = (19.6 × 0.196) 196

=> x = (196 × 196)/1960000

=> x = 0.0196

Therefore The correct answer is 0.0196

Q52. Answer: (a) 2.32

Calculation:

Let the number be x

1/33 × 1/66 × 1/3 × 1/66 × 10000 × x

=> (10000/431244) × x

=> 0.0232x

Therefore Percentage = (0.0232x/x) × 100 = 2.32%

Q53. Answer: (b) 3

Given:

$x = 1/\sqrt{3}$ and $y = 1/\sqrt{5}$

Calculation:

$(6x^2 – 5y^2) (6x^2 + 5y^2)$

putting the given value of x & y, we get,

$=> [6(1/\sqrt{3})^2 – 5(1/\sqrt{5})^2][6(1/\sqrt{3})^2 + 5(1/\sqrt{5})^2]$

=> [6(1/3) – 5(1/5)][6(1/3) + 5(1/5)]

=> [2 – 1][2 + 1]

=> 3

Therefore The value of $(6x^2 – 5y^2) (6x^2 + 5y^2)$ is 3

Q54. Answer: (c) 330

Given:

a (x) b = (a + b) (a × b)

Calculation:

=> 6 (x) 5 = (6 + 5) (6 × 5)

=> 6 (x) 5 = 11 × 30

=> 6 (x) 5 = 330

Therefore the value of 6 (x) 5 is 330

Q55. Answer: (c) Right angle

Given:

Angles of the triangle are in the ratio of 1 : 2 : 3

Concept used:

Sum of three angles of a triangle is 180°

Calculation:

Let the angles of triangle are x, 2x and 3x

Angles sum properties of tringle,

x + 2x + 3x = 180

=> 6x = 180

=> x = 30

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Angles of triangle are 30, 60 and 90

Therefore Tringles is the Right angle triangle

Q56. Answer: (b) 3

Given:

The diameter of the two circles is 6 units and 10 units and center distance is 8 units

Concept used:

If two circles touches each other externally then maximum three tangents can be drawn to both the circles.

Calculation:

Then, the radius of the two circles is 3 units and 5 units

According to given conditions, both circles just touches eachother at a point

Number of common tangents that can be drawn to both the circle = PQ and AB (2 direct tangent) and line L(1 common tangent)

Therefore Number of common tangents that can be drawn to both the circle is 3

Q57. Answer: (b) 32

Calculation:

Quantity of water in the mixture of 240 litres = 15% of 240 = 36 litres

Let the extra water added be x

So, water become (36 + x) litres and mixture become (240 + x) litres

According to question,

(36 + x) /(240 + x) = 25/100

=> (36 + x) /(240 + x) = 1/4

=> 4 × (36 + x) = (240 + x)

=> 144 + 4x = 240 + x

=> 3x = 240 – 144 = 96

=> x = 32

Therefore Extra water should be added to make water 25% = 32 litres

Shortcut Trick

We know, 15% = 3/20 and 25% = 1/4

At first, juice contains 15% water,

We can say 3 unit of water and 17 unit of juice

Then some water is added and water becomes 25%

So, we can say 1 unit of water and 3 unit of juice

Now, no change in the juice, so we have to do equal juice unit

	Water	**Juice**
Before × 3	9	51
After water added × 17	17	51

Before water added total mixtue (51 + 9) = 60 unit → 240 ltr

Water added (17 - 9) = 8 unit → 240/60 × 8 = 32 ltr

Q58. Answer: (b) 17 : 11

Given:

8 year ago the ratio of age of father and his son was 7 : 4

Calculation:

Let the father and son age be 7x and 4x respectivily

Present age of father and son is (7x + 8) and (4x + 8) respectivily

According to question,

(7x + 8) + (4x + 8) = 126

=> 11x + 16 = 126

=> x = 10

Present age of father = (7x + 8) = 78 years and present age of son = (4x + 8) = 48 years

After 7 years, father = 78 + 7 = 85 years and son = 48 + 7 = 55 years

Therefore After 7 years the ratio of ages of father and son = 85 : 55 = 17 : 11

Alternate Method

sum of the present ages of a father and his son is 126 years.

8 years ago sum of their ages is 126 - (8 × 2) = 110

Here, 8 years ago Father : Son = 7 : 4,

So, at this time father's age 7/11 × 110 = 70 years, son's age 40 years

Now, Aftre 7 years from the present ratio of their ages will be

Father : Son = (70 + 8 + 7) : (40 + 8 + 7)

Father : Son = 85 : 55

Father : Son = 17 : 11

Q59. Answer: (a) 3 : 5

Shortcut Trick

Using the alligation method on the fractional part of the spirit:

Spirit part in Vessel 1 = 5/6 and in Vessel 2 = 3/10.

Target mixture has half spirit, so Mean = 1/2.

Ratio = (Mean − Vessel 2) : (Vessel 1 − Mean)

Ratio = (1/2 − 3/10) : (5/6 − 1/2) = 1/5 : 1/3 = 3 : 5.

Therefore The correct answer is 3 : 5.

Alternate Method

Given:

Ratio of spirit and water in Vessel 1 = 5 : 1

Ratio of spirit and water in Vessel 2 = 3 : 7

Target mixture ratio (half spirit, half water) = 1 : 1

Formula Used:

Alligation Rule: Ratio of Quantity = (Mean Value − Cheaper Value) : (Dearer Value − Mean Value)

Vessel 1

Vessel 2

Mean

5/6

3/10

1/2

1/5

1/3

Ratio = 1/5 : 1/3 = 3 : 5

Calculations:

=> Fraction of spirit in Vessel 1 = 5 ÷ (5 + 1) = 5/6

=> Fraction of spirit in Vessel 2 = 3 ÷ (3 + 7) = 3/10

=> Fraction of spirit in the Target Mean Mixture = 1 ÷ (1 + 1) = 1/2

=> Left side difference (Vessel 1 quantity ratio) = 1/2 − 3/10 = 2/10 = 1/5

=> Right side difference (Vessel 2 quantity ratio) = 5/6 − 1/2 = 2/6 = 1/3

=> The required mixing ratio = 1/5 : 1/3

=> Multiplying both sides by the LCM of denominators (15) to simplify:

=> Required Ratio = (1/5 × 15) : (1/3 × 15) = 3 : 5

Therefore The correct answer is 3 : 5.

Additional Information

Rule of Alligation

A practical method to find the ratio in which two ingredients at different given values must be mixed to produce a mixture of a specified mean value. It visualizes the process through a simple cross-difference diagram.

LCM Equal Proportions Trick

When combining multiple mixtures manually without alligation, calculate the total unit parts of each mixture and multiply them to

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match their LCM. This ensures smooth addition of the corresponding components.

Repeated Dilution Formula

If a vessel contains a units of pure liquid and b units are repeatedly drawn and replaced with water n times, the remaining pure liquid quantity = $a \times (1 - b/a)^n$.

Q60. Answer: (c) 69

Concept used:

5^(th) and 6^(th) numbers are in the middle of 10 consecutive numbers

Calculation:

Let the 5^(th) and 6^(th) number be x and (x + 1) respectivily

Because Average of the two numbers given in the middle is 13.5

Sum of two number = 13.5 × 2

=> x + (x + 1) = 13.5 × 2

=> 2x + 1 = 27

=> x = 13

The 5^(th) and 6^(th) number is 13 and 14 respectivily

The first 6 numbers are 9, 10, 11, 12, 13 and 14

Therefore The sum of the first 6 numbers = 9 + 10 + 11 + 12 + 13 + 14 = 69

Q61. Answer: (d) 10000

Shortcut Trick

Simple Interest for 6 years = 7000 − 4000 = Rs. 3000

Since Simple Interest is directly proportional to the Rate of Interest.

When the rate of interest is doubled, the interest for the same period will also double.

New Interest = 2 × 3000 = Rs. 6000

New Amount = Principal + New Interest = 4000 + 6000 = Rs. 10000

Therefore The correct answer is Rs. 10000.

Alternate Method

Principal

Rs. 4000

Rate = R%

SI = Rs. 3000

Rate = 2R%

SI = Rs. 6000

Amount 1

Rs. 7000

Amount 2

Rs. 10000

Given:

Principal (P) = Rs. 4000

Amount (A1) = Rs. 7000

Time (T) = 6 years

Formula Used:

Simple Interest (SI) = Amount − Principal

SI = (P × R × T) ÷ 100

Calculations:

=> Original SI = 7000 − 4000 = Rs. 3000

=> Simple interest is directly proportional to the rate of interest (SI prop. to R).

=> When the rate is doubled, the interest will also double (since Time and Principal are constant).

=> New SI = 2 × 3000 = Rs. 6000

=> New Amount = Principal + New SI

=> New Amount = 4000 + 6000 = Rs. 10000

Therefore The correct answer is Rs. 10000.

Additional Information

Simple Interest Proportionality

Simple Interest is directly proportional to Principal (P), Rate (R), and Time (T). If any one of these factors is multiplied by 'n', the simple interest is also scaled by exactly 'n'.

Amount Formula

The final Amount is the sum of Principal and the Simple Interest accumulated over the given time period. The general formula used is: A = P + SI = P × (1 + (R × T) ÷ 100).

Simple Interest vs Compound Interest

Unlike Compound Interest, Simple Interest is calculated exclusively on the original principal. Therefore, any linear change in the interest rate reflects linearly in the total interest.

Q62. Answer: (b) 7.69

Given:

Selling price (SP) of 39 articles = Cost price (CP) of 42 articles

Calculation:

SP × 39 = CP × 42

=> SP/CP = 14/13

Profite = 14 – 13 = 1

Therefore Profit % = (1/13) × 100 = 7.69%

Alternate Method

Concept used:

In article-based problems

If cost article > selling article, there is profit and

If selling article > cost article, there is loss

Profit% = (Cost article - Selling article)/Selling article × 100

Calculation:

According to the question, cost article > selling article so there is profit

Profit% = (42 - 39)/39 × 100 = 7.69%

Therefore The correct answer is 7.69%

Q63. Answer: (b) 32

Given:

Marked price (MP) of a trouser = 2 × the cost price (CP)

=> MP/CP = 2/1

Calculation:

Let MP is m% more than the CP

m = [(MP – CP) /CP] × 100

=> m = 100%

Because p = m – d – (m × d) /100 [Because p = profit% and d = discount%]

=> 36 = 100 – d – (100 × d) /100

=> 36 = 100 – 2d

=> d = 64/2 = 32%

Therefore discount = 32%

Q64. Answer: (c) 18

Calculation:

$(\sqrt{5} + \sqrt{4})/(\sqrt{5} - \sqrt{4}) + (\sqrt{5} - \sqrt{4})/(\sqrt{5} + \sqrt{4})$

after rationalizing we get,

$=> (\sqrt{5} + \sqrt{4})/(\sqrt{5} - \sqrt{4}) \times (\sqrt{5} + \sqrt{4})/(\sqrt{5} + \sqrt{4}) + (\sqrt{5} - \sqrt{4})/(\sqrt{5} + \sqrt{4}) \times (\sqrt{5} - \sqrt{4})/(\sqrt{5} - \sqrt{4})$

$=> ((\sqrt{5} + \sqrt{4})^2)/((\sqrt{5})^2 - (\sqrt{4})^2) + ((\sqrt{5} - \sqrt{4})^2)/((\sqrt{5})^2 - (\sqrt{4})^2)$

$=> (5 + 4 + 2\sqrt{20} + 5 + 4 - 2\sqrt{20})/(5 - 4)$

=> 18

Therefore The correct answer is 18

Q65. Answer: (b) 12

Concept used:

Total work = efficiency × time

Calculation:

P and Q can make a table in 16 days and 20 days respectivily

P's single day work = 1/16

Q's single day work = 1/20

Q's single 5 day work = (1/20) × 5 = ¼

Remaining work to do = 1 – ¼ = 3/4

Therefore P can complete the remaining work = (¾) ÷ (1/16) = 12 days

Shortcut Trick P can do the work in 16 days and Q can do that in 20 days

LCM of 16, 20 = 80 (total work)

Efficiency of P is 80/16 = 5 unit and for Q is 80/20 = 4 unit

In first 5 days Q done 4 × 5 = 20 unit of work,

The remaining work is (80 - 20) = 60 unit

P will done the remaining work in 60/5 = 12 days

Q66. Answer: (a) 5

Given:

A boat covers a distance of 14 km upstream and 16 km downstream in 9 hours.

It covers a distance of 12 km upstream and 40 km downstream in 11 hours.

Concept Used:

Upstream Speed = B - S

Downstream Speed = B + S

Time (T) = Distance (D)/Speed(S)

B = Speed of Boat

S = Speed of Stream

Calculation:

Let the speed of boat in still water = B km/hr and current flow = R km/hr

Speed in upstream = (B – R) = x

Speed in downstream = (B + R) = y

According to question,

14/x + 16/y = 9

=> 16x + 14y = 9xy ---- (1)

12/x + 40/y = 11

=> 40x + 12y = 11xy ---- (2)

Divide equation (1) by (2)

(16x + 14y) /(40x + 12y) = 9/11

=> 176x + 154y = 360x + 108y

=> 184x = 46y

=> x = y/4 ---- (3)

Putting value of 'x' in equation (1)

16y/4 + 14y = 9y × y/4

=> y = 8

From equation (3), x = 2

Because x = (B – R) = 2 ---- (4)

y = (B + R) = 8 ---- (5)

Adding equation (4) and (5)

2B = 10

=> B = 5

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Therefore The speed of the boat in still water is 5 km/hr.

Q67. Answer: (b) A

Because A' share in the business = Rs. 70 lakhs
B' share in the business = Rs. 30 lakhs
C' share in the business = Rs. 20 lakhs
D' share in the business = Rs. 60 lakhs
E' share in the business = Rs. 60 lakhs
F' share in the business = Rs. 90 lakhs
G' share in the business = Rs. 30 lakhs
Therefore A got the second highest share in the profit

Q68. Answer: (c) 360

Because A' share in the business = Rs. 70 lakhs
B' share in the business = Rs. 30 lakhs
C' share in the business = Rs. 20 lakhs
D' share in the business = Rs. 60 lakhs
E' share in the business = Rs. 60 lakhs
F' share in the business = Rs. 90 lakhs
G' share in the business = Rs. 30 lakhs
Therefore The total Profit of the business of the year 2017 = (70 + 30 + 20 + 60 + 60 + 90 + 30) = Rs. 360 lakhs

Q69. Answer: (b) 60

Because Complete angle pie chart = 360°
The total Profit of the business of the year 2017 = (70 + 30 + 20 + 60 + 60 + 90 + 30) = Rs. 360 lakhs
The central angle of the sector representing share in profits of partner E = (60/360) × 360
Therefore The central angle of the sector representing share in profits of partner E = 60°

Q70. Answer: (b) 2.5

Because The total Profit of the business of the year 2017 = (70 + 30 + 20 + 60 + 60 + 90 + 30) = Rs. 360 lakhs
According to question,
C's share in the profit of Rs. 45 lakhs = (20/360) × 45
Therefore C's share = Rs. 2.5 lakhs

Q71. Answer: (a) 46

Given:
The length and breadth of a rectangle are 15 cm and 8 cm
Formula used:
Perimeter of rectangle = 2(length + breadth)
Calculation:
Perimeter of rectangle = 2(length + breadth)
=> Perimeter of rectangle = 2(15 + 8) = 46 cm
Therefore Option 1 is the correct answer.

Q72. Answer: (c) 21

Concept used:
• Area of semi-circle = 1/2 × (area of circle) = 1/2 × πr^2
Calculation:
=> 693 = (22/7) × $r^2/2$
=> r^2 = (693 × 7 × 2) /22
=> r = 21
Therefore Radius of semi-circle = 21 cm

Q73. Answer: (c) 528

Given:

diameter of circular cone = 24 cm and slant height (l) = 14 cm

So, radius = 12 cm

Concept used:

Curved surface area of a right circular cone = π × r × l

Calculation:

Curved surface area of a right circular cone = (22/7) × 12 × 14

Therefore Curved surface area of a right circular cone = 528 cm^2

Q74. Answer: (a) 1/6

Given:

ΔPQR is right angled triangle with angle R = 30° and angle Q = 90°

Concept used:

• Sum of three angles of a triangle is 180°

• cos 60° = 1/2

Calculation:

By angle sum property, angle P = 60°

cosP - 1/3

= cos 60° - 1/3

= ½ - 1/3

= 1/6

Therefore The value of (cosP - 1/3) = 1/6

Q75. Answer: (c) 1.5

Given:

ΔABC measure of angle B is 90°

Concept used:

cot θ = base/perpendicular

Calculation:

Ratio of trigonometry, cot A = AB/BC

8/15 = 0.8/BC [Because cot A = 8/15, and AB = 0.8 cm]

Therefore BC = 1.5 cm

Q76. Answer: (d) All options are correct.

• A natural monopoly is a monopoly that exists because of the cost of producing the product i.e. a good or a service is lower due to economies of scale.

• A natural monopoly occurs whenever an industry is high, and its market shared among two or more rival plants owning duplicate distribution networks.

• A natural monopoly can also appear in smaller local markets for products that are difficult to transport.

Q77. Answer: (c) Commercial Banking

• In India, the Public Sector is most dominant in Commercial Banking

• A Commercial Bank can accept deposits, offers to check account services and makes business, personal and mortgage loans.

• It can also issue the financial product such as Certificates of Deposit and Savings Accounts to individuals and small businesses.

Q78. Answer: (c) Baikal

• The deepest Lake in the world is Baikal Lake.

• It is the largest freshwater lake by volume in the world, containing 22–23% of the world's fresh surface water.

• It contains more water than the North American Great Lakes combined with a maximum depth of 1,642 mt.

• It is also the world's deepest lake.

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Q79. Answer: (c) Kolleru - Andhra Pradesh

• Kolleru Lake is one of the largest freshwater lakes in India located in the state of AndhraPradesh.

• It makes the largest shallow freshwater lake in Asia.

• There is also Kolleru Bird Sanctuary that covers mainly two districts of Andhra Pradesh namely - Krishna and West Godavari districts.

Lake	State
Lonar	Maharashtra
Nakki	Mountabu, Rajasthan
Kolleru	Andhra Pradesh
Pulicat	Coromandel Coast

Q80. Answer: (a) Sasaram

The correct answer is Sasaram.

Key Points

• Sher Shah Suri was born in Narnaul city in the Mahendragarh district of Haryana.

• His grandfather Ibrahim Suri was the Jagirdar of Narnaul.

• Sher Shah Suri was killed on 22 May 1545 during the siege of Kalinjar fort against the Rajputs of Mahoba.

• When all tactics to subdue this fort failed, he ordered the fort's walls to be blown up with gunpowder, but he himself was seriously wounded as a result of the explosion of a mine.

• He was succeeded by his son Jalal Khan, who took the title of Islam Shah Suri.

• His mausoleum, the Sher Shah Suri Tomb stands in the middle of an artificial lake at Sasaram, a town on the Grand Trunk Road.

Q81. Answer: (d) Lord Wellesley

The correct answer is Lord Wellesley.

Key Points

• Lord Wellesley (1798 AD-1803 AD):

• He introduced the system of the Subsidiary alliance.

• Madras Presidency was formed during his tenure.

• The fourth Anglo-Mysore War was fought by him in 1799 AD, and Tipu Sultan died.

• He signed the first subsidiary treaty with Nizam of Hyderabad.

• He set up Fort William College in Calcutta in 1800 AD.

• He was also known as Bengal Tiger.

• He brought the censorship of the Press Act, 1799 AD.

• Treaty of Bassein was signed during his tenure in 1802 AD.

Additional Information

• Lord Cornwallis started the permanent settlement of Bengal.

• The first governor-general in India (of Bengal) was Warren Hastings in 1773.

• The Dual System of Government in Bengal was introduced by Lord Clive.

• Clive served twice as Governor of Bengal.

• He was the Governor of Bengal from 1757-60 and from 1765-67.

Q82. Answer: (b) Jainism

• Syadvada was the fundamental basis of Jainism.

• It is the teaching of the relativism of judgments states that all actual and possible statements regarding an object are respective.

• The fundamental way of living is Non-Violence, Non-hurting, Non-harming, Non-hating, Truthfulness, Non-stealing, Celibacy, and Non-Possessiveness of things, people and thoughts.

Q83. Answer: (a) Latin America and the Caribbean countries

• Latin America and the Caribbean countrieshave been ranked as the world's most violent region for women.

• In this region, the rate of sexual violence against women outside of relationships is the highest. in the world.

• The second-highest for those who are in or were in a relationship.

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Q84. Answer: (c) Manushi Chhillar

• Manushi Chillar won the title of Miss World 2017.

• She is the sixth Indian woman to win Miss World title.

• She was also the winner of Miss India 2017.

• She was inaugurated by Miss World 2016, Miss Stephanie Del Valle.

Q85. Answer: (a) Royal Bengal Tiger

• The Royal Bengal tiger is the national animal of Bangladesh.

• Royal Bengal tiger is the symbol of bravery and sharp intelligence.

• They are also representing the power as they are very strong.

• As they are such a powerful, intelligent and majestic animal, Royal Bengal tiger is regarded as the national animal of Bangladesh.

Q86. Answer: (a) the size of an atom increases

• In the modern periodic table while going from top to bottom in a group the size of an atom increases.

• From left to right in a periodic table, the atomic volume first decreases due to the increase of nuclear charge.

• The number of electrons in the valence shell keeps increasing, results in a decrease of effective nuclear charge due to the shielding effect. Due to this atomic radius increases and thus atomic volume increases

•.

Q87. Answer: (b) Milk

• Milk is not a Compound, it is a colloidal mixture.

• Ammonia is a Compound of Nitrogen and Hydrogen with the formula NH3.

• Sodium chloride is a Compound used by our body to absorb and transport nutrients and also to maintain blood pressure. Its formula is NaCl.

• Chalk is a Compound. Its formula is CaCO3. It is a form of limestone which is made up of the mineral Calcite.

Q88. Answer: (b) Lok Sabha

• According to Article 75 of Indian Constitution, the ministers are collectively responsible to the Parliament in general and to the Lok Sabha in particular.

• Lok Sabha is the bridge between the Executive and the Legislature.

• The Lok Sabha is the lower house of bicameral Parliament.

• The total number of Ministers, including the Prime Minister, in the Council of Ministers, shall not exceed fifteen per cent of the total number of members of Lok Sabha.

Q89. Answer: (d) All I, II and III

• The marriage differs around the world between cultures and religions. Divorce requires the sanction of a court or other authority in a legal process, which may involve issues of maintenance.

• India has excess power generation capacity, but it lacks in appropriate infrastructure for supplying electricity to all needful people.

• Labour welfare improves physical, mental and moral conditions of the worker.

• It includes housing, medical, educational, restrooms, recreation, canteen, games and sports club facilities, adequate wages, reasonable working hours, insurance etc.

Q90. Answer: (a) Contractile protein

The correct answer is Contractile protein

Contractile protein:

• Contractile protein is the special proteins in muscles that contract and relax to cause movement.

• The cytoplasm of cells is a colloidal network of contractile proteins.

• Actin filaments are the major components of this network.

• Other contractile proteins interact with this filament to create structural rigidity and movement.

Q91. Answer: (c) Pteridophyta

• A Pteridophyte is a plant having a body that is differentiated into roots, stems and leaves and has a specialized tissue for the conduction of water and other substances.

• It is a sensulato is a vascular plant with xylem and phloem that reproduces through spores.

• It contains the ferns, horsetails, and the lycophytes clubmosses, spike mosses, and quillworts.

Q92. Answer: (b) State Bank of India

• In January 2018, 'Electoral Bonds' Scheme was launched. Under this scheme, the electoral bonds will be available at specified branches of State Bank of India.

• It is the only approved bank to issue such type of bonds.

• A person being an individual can buy electoral bonds, either singly or jointly, with other individuals.

• Electoral bonds were issued at SBI branches in New Delhi, Mumbai, Kolkata and Chennai.

Q93. Answer: (a) Only Polyurethane

• By using Polyurethane foam the Researchers from Indian Institute of Technology – Bombay has made a low-cost piezoresistive vibration sensor.

• It is a polymer made up of biotic units joined by carbamate links.

• They are thermosetting polymers that do not melt when heated.

• Conventional piezoelectric and microelectromechanicalsystems-based vibration sensors developed for this type of applications.

Q94. Answer: (d) Cryptocurrency

• ICO(Initial Coin Offering) is related to Cryptocurrency.

• It is a digital asset designed to work as a medium of exchange that uses strong cryptography to secure financial transactions, control the creation of additional units, and it also verifies the transfer of assets.

Q95. Answer: (b) 112

• As per the Global Gender Gap report, India's rank in the Educational Attainment pillar was 112. India scores 0.952.

• India's overall literacy rate shows difference between men with eighty percent and women with fifty-ninepercent.

Q96. Answer: (d) 75

Correct answer is 75

CONCEPT:

• Equation of motion: The mathematical equations used to find the final velocity, displacements, time, etc of a moving object without considering force acting on it are called equations of motion.

• These equations are only valid when the acceleration of the body is constant and they move on a straight line.

There are three equations of motion:

$V = u + at$

$V2 = u2 + 2 a S$

$S = ut + 1/2at^2$

Where, V = final velocity, u = initial velocity, s = distance traveled by the body under motion, a = acceleration of body under motion, and t = time taken by the body under motion.

CALCULATION:

Given that:

Initial velocity (u) = 10 m/s

Acceleration (a) = 2 m/s^2

Time (t) = 5 sec

$S = ut + 1/2 at^2$

Displacement (S) = $10 \times 5 + (1/2) \times 2 \times 5^2 = 75$ m

Hence option 4 is correct.

Q97. Answer: (a) J s^(-1)

• The 1 W unit measure equals to 1.00 J/s as the equivalent measure for the same power type.

• Energy is measured in Joules while power is measured in watts.

• 1 watt is defined as 1 joule/sec. The joules per second unit number 1.00 J/s converts to 1 watt.

Q98. Answer: (d) Pollutants

The correct answer is Pollutants

Pollutants:

• Air pollutants are the substances which contaminate the air.

• It is a material in the air that can have harmful effects on humans and the ecosystem.
• The substance can be solid particles, liquid droplets, or gases.
• Examples include carbon monoxide gas from motor vehicle exhaust and the sulphur dioxide released from factories and industries.

Q99. Answer: (c) Both A and C

• Rafael Nadal won Tennis 2017, 10^(th) French Open title and 15^(th) Grand Slam singles title by defeating Stan Wawrinka in the final.
• In 2017, Marc Marquez raced in MotoGP for Honda.
• He started the 2017 season with a 4th-place finish in Qatar, followed by a crash while leading in Argentina.
• His current MotoGP victory places him in the top ten.in wins all time and second for Honda in the premier class.

Q100. Answer: (d) Footer area

• In HTML, a footer area is at the bottom of the page and usually contains disclaimers, copyright information etc.
• A footer is an area at the bottom of a document page that contains data common to other pages.
• The information in footers consists of things like page numbers, creation dates, copyrights, or references.

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