SSC CHSL Previous Paper 14 (Held On: 10 March 2018 Shift 1) (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. 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'.

Her behaviour (1)/ around him (2)/ was a little oddly. (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 more energy we give to a particular thought (1)/, the greater is its power to attract its corresponding circumstance into (2)/ their physical world through the law of attraction. (3)/ No error (4)

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

Q3. In the following question, the sentence is given with a 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.

I am tired _____ this, Chandler.

(a) With
(b) Over
(c) Of
(d) For

Q4. In the following question, the sentence is given with a 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.

The main use of friendship is that it _____ man to express his feelings and emotions.

(a) Enables
(b) Capables
(c) Stables
(d) Ables

Q5. In the following question, out of the given four alternatives,

select the one which best expresses the meaning of the given word.

'Unruly'

(a) Cooperative
(b) Disobedient
(c) Compliant

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(d) Yielding

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

(a) Continuation
(b) Boredom
(c) Anger
(d) Struggle

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

(a) Material
(b) Fleshly
(c) Earthly
(d) Spiritual

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

(a) Cramped
(b) Broad
(c) Comfortable
(d) Generous

Q9. Rearrange the parts of the sentence in correct order.
In order to tone up
P: it should be
Q: the physical education programme,
R: reoriented and implemented

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

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.
My sister will write an application.

(a) An application would be wrote by my sister.
(b) An application will be wrote by my sister.
(c) An application will be written by my sister.
(d) An application would written by my sister.

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.
Rita said, “Alas! I am undone.”

(a) Rita said that she was undone.
(b) Rita told me that she was undone.
(c) Rita exclaimed sadly that she was undone.
(d) Rita said that alas, she was undone.

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

(a) Mellnia
(b) Millennia
(c) Milleinia
(d) Meillenia

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.

One who has witnessed a debate _(1) argument between two men _(2)_ strong intellectually, one of whom is a trained logician and the other lacking this advantage, will never forget the impression produced (3)_ him by the unequal struggle. The conflict is like that of a _(4)__ wrestler, untrained in the little tricks and turns of the science, in the various principles of applying force in a certain way at a certain time, at a certain place, with a _(5)___ and experienced wrestler.

Q13. witnessed a debate _(1)_ argument between

(a) Of
(b) Or
(c) But
(d) So

Q14. two men _(2)_strong intellectually,

(a) Equal
(b) Equality
(c) Equals
(d) Equally

Q15. impression produced __(3)___ him by the unequal

(a) Up
(b) Upon
(c) Into
(d) In

Q16. like that of a __(4)__ wrestler, untrained

(a) Powerful
(b) Power
(c) Powerfully
(d) Powering

Q17. certain place, with a __(5)__ and experienced wrestler

(a) Trained
(b) Train
(c) Training
(d) Trains

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

(a) Broadcast over the radio or on TV.
(b) Float like a bird.
(c) To pass bodily gases.
(d) Be very arrogant.

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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.

A diamond in the rough

(a) Someone or something with potential or talent but lacking training or polish
(b) A person who dresses shabbily
(c) A diamond will shine out even when it is not polished.
(d) A person of character will shine through even in tough times.

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

An opinion or conclusion formed on the basis of incomplete information

(a) Proof
(b) Conjecture
(c) Clincher
(d) Averment

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

Protection or exemption from something, especially an obligation or penalty

(a) Castigation
(b) Immunity
(c) Penance
(d) Ostracism

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".

I (has been) fortunate to travel with interesting co-passengers.

(a) Have been
(b) Have being
(c) Has being
(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".

A bed sheet hung on the doorway sufficed till the doors (is finally installed).

(a) Was finally installed
(b) Were finally installed
(c) Were finally install
(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.

Everyone around

A - stood as a misfit among them

B - me turned out to be

C - an early-riser and I

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

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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) declination
(b) declenation
(c) declinasion
(d) declenasion

GENERAL INTELLIGENCE

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

Truck : Vehicle : : ? : ?

(a) Car : Road
(b) Road : Stones
(c) Scooter : Tyre
(d) Green : Colour

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

446 : 443 : : 552 : ?

(a) 445
(b) 549
(c) 543
(d) 551

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

HER : SVI : : MET : ?

(a) AVT
(b) RKG
(c) NVG
(d) LVA

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

(a) Patient - Doctor
(b) Criminals - Police
(c) Student - Teacher
(d) Animal - Bird

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of 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) 10 - 14
(b) 14 - 18
(c) 12 - 16
(d) 16 - 24

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

(a) CDFI
(b) RSUX
(c) JKMP
(d) FGJM

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

1. Jumbo Jet
2. Juggling
3. Justice

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4. Jewel

5. Jealous

(a) 54213
(b) 23415
(c) 12345
(d) 42315

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

5, 9, 13, 17, 21, ?

(a) 32
(b) 26
(c) 25
(d) 29

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

XJ, WL, VN, UP, ?

(a) TU
(b) TR
(c) ST
(d) SU

Q35. In a row of boys, Rahul's position from the right end is 39^(th) and Pankaj's position from the left end is 53^(rd). After interchanging their position, Rahul's position becomes 64^(th) from the right end. How many boys are there in the row?

(a) 118
(b) 117
(c) 116
(d) 120

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

RANKING

(a) INK
(b) RAIN
(c) KING
(d) ACTING

Q37. In a certain code language, "PRANK" is written as "RUESQ". How is "RATES" written in that code language?

(a) XDTYF
(b) ZFTDX
(c) FDXTZ
(d) TDXJY

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

10 + 20 x 10 ÷ 20 - 8 = ?

(a) 43
(b) 9
(c) 30
(d) 8

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

16 ÷ 8 - 5 x 2 + 6 = 9

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

Q40. If 4!4 = 4, 14!2 = 8 and 10!18 = 14, then find the value of 2!6 = ?

(a) 4
(b) 8
(c) 18
(d) 12

Q41. Which of the following terms follows the trend of the given list?

BAAAAAA, AAAAAAB, ABAAAAA, AAAAABA, AABAAAA, _____.

(a) ABAAABA
(b) AAAABAA
(c) BAAAAAA
(d) AAAAABA

Q42. A river connects two towns A and B. It flows 37 miles South from town A, then it turns West and flows 23 miles, then it turns North and flows 40 miles, then it turns to its right and flows 23 miles to reach town B. Where is town A with respect to town B?

(a) 3 miles South
(b) 13 miles South
(c) 3 miles North
(d) 13 miles North

Q43. 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 mobiles are phones

Statement II: All phones are devices

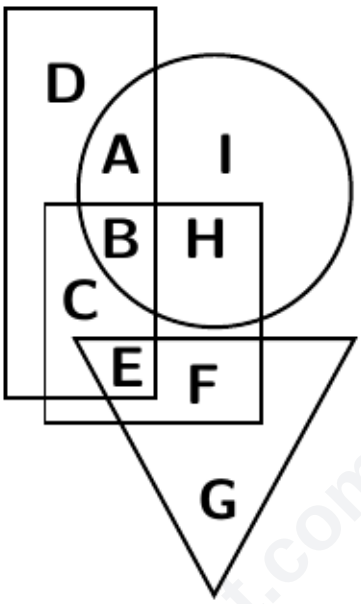
Conclusion I: Some phones are devices

Conclusion II: No devices are phones

(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, the rectangle represents Engineers, circle represents Art critics, triangle represents Comedians and square represents Asians. Which set of letters represents Asians who are Art critics as well as Engineers?

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(a) ECB
(b) AB
(c) B
(d) BH

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

PEN, MBK, JYH, GVE, ?

(a) ESB
(b) DRC
(c) DSB
(d) ERC

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

101, 97, 93, 89, ?, 81

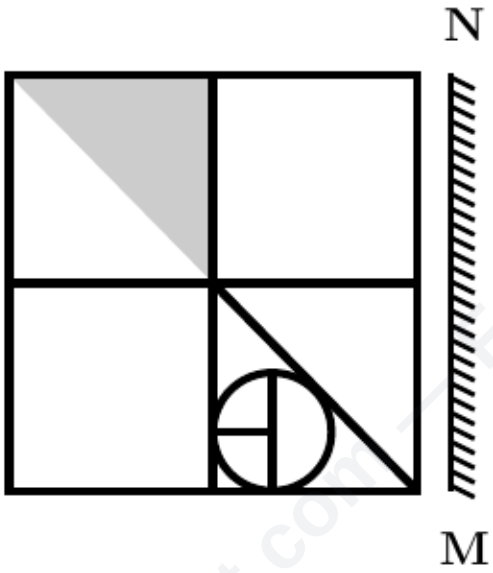
(a) 85
(b) 84
(c) 83
(d) 86

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.

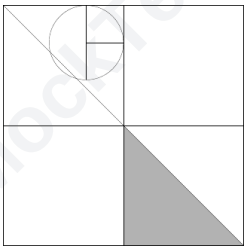
(a) (2, 22, 222)
(b) (3, 33, 333)
(c) (1, 11, 111)
(d) (4, 44, 4444)

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

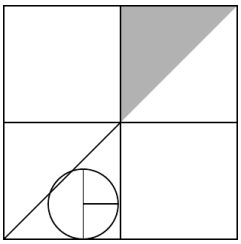
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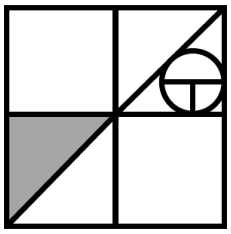
(a)



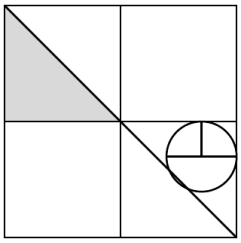
(b)



(c)

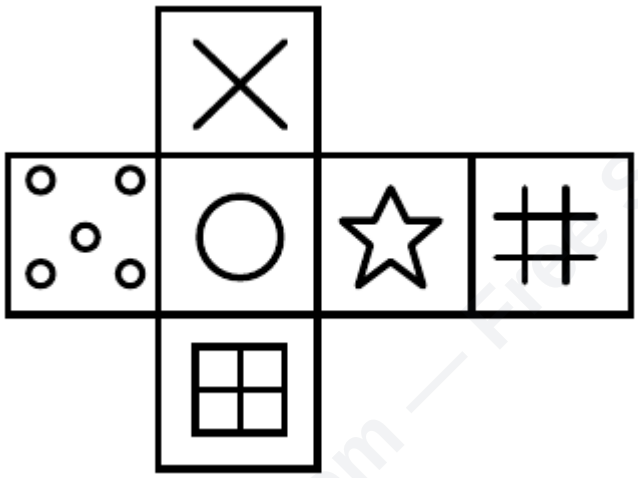


(d)

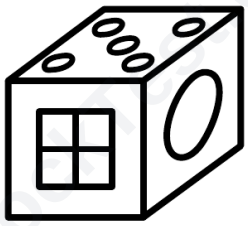


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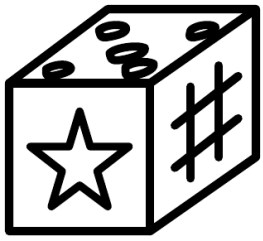
Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?



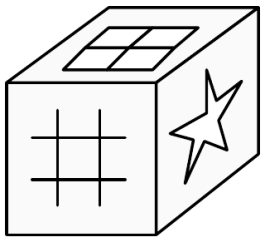
(a)



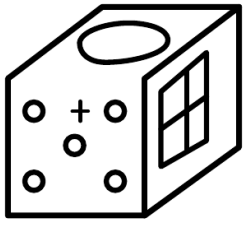
(b)



(c)



(d)



Q50. A word is represented by only one 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 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 31, 23 etc and ‘P’ can be represented by 86, 97 etc Similarly, you have to identify the set for the word ‘KILT’.

Matrix I		Matrix II									

	0	1	2	3	4		5	6	7	8	9
0	H	J	F	F	I	5	Z	V	Q	Y	X
1	C	D	F	M	H	6	Y	U	W	V	X
2	B	H	D	A	B	7	V	Z	T	V	T
3	K	A	L	K	C	8	Y	P	R	W	W
4	F	J	I	F	J	9	N	R	P	T	X

(a) 33, 86, 33, 78
(b) 14, 58, 22, 56
(c) 30, 42, 32, 77
(d) 21, 79, 42, 97

QUANTITATIVE APTITUDE

Q51. Find the number which is as much greater than 49 as it is less than 95.

(a) 23
(b) 55
(c) 72
(d) 76

Q52. Tanzeem spent 1/5 of his salary on his friends, 1/10 of his salary on accommodation, and 1/4 of his salary on savings. If he has Rs.1800 left, then find his total expenditure on accommodation and savings.

(a) Rs. 1,200
(b) Rs. 1,400
(c) Rs. 1,600
(d) Rs. 1,800

Q53. What is the value of $(2 - 2z + z^2)(2 + 2z - z^2)$, when $z + 2/z = 2$.

(a) 0
(b) 2
(c) 4
(d) 8

Q54. Determine the value of 'x' in the equation: $x = \sqrt{(20 + \sqrt{(20 + \sqrt{(20 + \sqrt{(20 + \ldots \infty)})})})}$

(a) 4
(b) 5
(c) 20
(d) 25

Q55. The point at which the perpendicular bisectors of the sides of a triangle intersect is known as

(a) circum-centre
(b) orthocentre
(c) centroid
(d) in-center

Q56. The radius of the circle circumscribing the three vertices of an equilateral triangle is 12 cm. Determine the height (in cm) of the equilateral triangle.

(a) 12
(b) 14
(c) 18
(d) 20

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Q57. If P = 350 and Q = 600, then P is how much percentage less than Q?

(a) 41.67%
(b) 58.33%
(c) 71.42%
(d) 35.33%

Q58. The ratio of two numbers is 5 : 4. If the sum of both the numbers is 180, then find the smaller number.

(a) 100
(b) 80
(c) 60
(d) 75

Q59. P started a business by investing Rs. 35000 and Q joined him after one year with an amount of Rs. 21,000. After two years from the starting of the business, they earned a profit of Rs. 26000. What will be P's share (in Rs.) of the profit?

(a) 15000
(b) 18000
(c) 20000
(d) 16000

Q60. If 31x + 31y = 403, then what is the average of x and y?

(a) 3.5
(b) 5
(c) 6.5
(d) 13

Q61. A sum of Rs 7500 is divided into two parts. The simple interest on the first part at the rate of 12% per annum is equal to the simple interest on the second part at the rate of 18% per annum. What is the Interest (in Rs) on first part for one year?

(a) 600
(b) 360
(c) 480
(d) 540

Q62. Selling price of a calculator is Rs 13924 and profit percentage is 18%. If selling price is Rs 10266, then what will be the loss percentage?

(a) 17.2%
(b) 13%
(c) 14.9%
(d) 11%

Q63. Rohit wants to earn 21% profit on a belt after offering 45% discount. By how much percentage more should he mark the price of his article above the cost price?

(a) 75%
(b) 120%
(c) 66%
(d) 102%

Q64. What is the value of √(513 - √144 - √81 - √64)

(a) 22
(b) 21
(c) 28
(d) 19

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Q65. Two taps P and Q can fill a tank in 24 hours and 18 hours respectively. If the two taps are opened at 11 a.m., then at what time (in p.m.) should the tap P be closed to completely fill the tank at exactly 2 a.m?

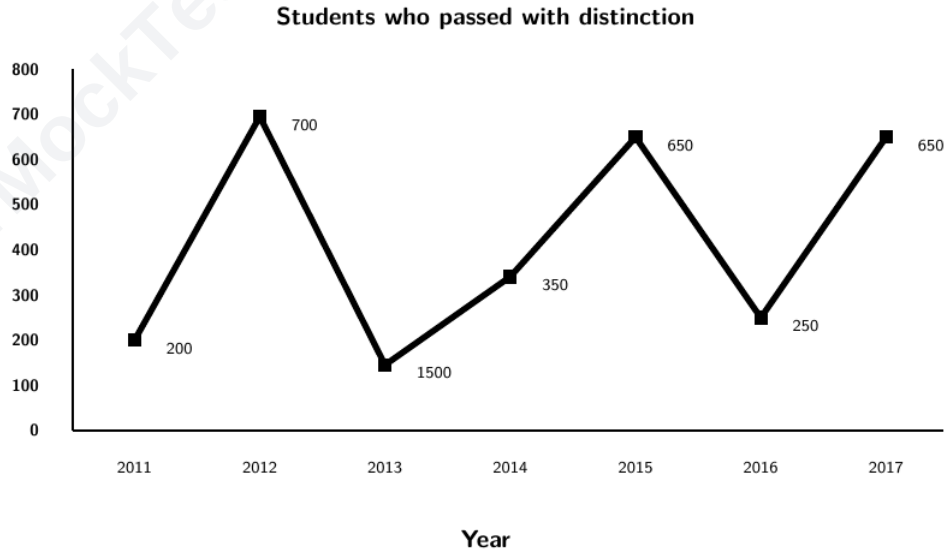
(a) 5
(b) 2
(c) 3
(d) 4

Q66. If Anuj walks at the speed of 4 km/hr, then he reaches his school 6 minutes late but if he walks at the speed of 5 km/hr, then he reaches 6 minutes before the scheduled time. What is the distance (in km) of his school from his house?

(a) 4
(b) 3
(c) 6
(d) 3.5

Directions

Direction: The line graph shows the number of students who passed with distinction in the given year from a certain university. Study the diagram and answer the following questions.



Q67. In which year the number of students who passed with distinction was lesser than those who passed with distinction in the previous year?

(a) 2012
(b) 2014
(c) 2015
(d) 2013

Q68. What was the difference in the number of students who passed with distinction between the years 2017 and 2014?

(a) 6000
(b) 5000
(c) 4000
(d) 3000

Q69. Number of students who passed with distinction in 2012 were greater than that in 2011 by_____.

(a) 350%
(b) 100%
(c) 200%
(d) 250%

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Q70. If students who pass with distinction are given a certificate, what is the number of certificates awarded in the last three years?

(a) 16500
(b) 15500
(c) 14500
(d) 13500

Q71. The length and breadth of a rectangle are 24 cm and 7 cm respectively. What must be the length of its diagonal (in cm)?

(a) 50
(b) 25
(c) 28
(d) 56

Q72. Find the circumference (in cm) of a circle of radius 10.5 cm.

(a) 84
(b) 35
(c) 70
(d) 66

Q73. Find the total surface area (in cm^2) of a right circular cylinder of diameter 42 cm and height 14 cm.

(a) 4488
(b) 4250
(c) 4010
(d) 4620

Q74. What is the value of (2 - sin30°)

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

Q75. ΔPQR is right angled at Q. If cos P = 5/13, then what is the value of cosec R?

(a) 13/5
(b) 5/12
(c) 5/13
(d) 13/12

GENERAL AWARENESS

Q76. The existence of a parallel economy (black money) _____

(a) makes economy more competitive
(b) makes the monetary policies less effective
(c) ensures a better distribution of income and wealth
(d) ensures increasing productive investment

Q77. 'Garibi Hatao' (removal of poverty) and 'Growth with Stability' were the main objectives of

(a) Rolling Plan
(b) Fourth Five Year Plan
(c) Fifth Five Year Plan
(d) 2 and 3 both

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Q78. "Dhamek Stupa" is located at which of the following places?

(a) Bodh Gaya
(b) Sarnath
(c) Sanchi
(d) Kaushambi

Q79. How long the Non-cooperation Movement was conducted?

(a) April 1920 to February 1922
(b) September 1920 to February 1922
(c) June 1920 to December 1922
(d) December 1920 to June 1922

Q80. The Equator does NOT pass through which of the following countries?

(a) Kenya
(b) Mexico
(c) Indonesia
(d) Brazil

Q81. The boundary of which of the following state/country does NOT touch Arunachal Pradesh?

(a) Assam
(b) Nagaland
(c) Bhutan
(d) Manipur

Q82. Achchhan Maharaj is associated with which of the following fields?

(a) Instrumental music
(b) Dance
(c) Painting
(d) Writing

Q83. In December 2017 which country has signed an agreement with Sudan to build a nuclear power plant in the nation?

(a) China
(b) Pakistan
(c) Russia
(d) India

Q84. Which university has been ranked at the top in the Swachhta Ranking 2017 released by the Union Government?

(a) Banaras Hindu University
(b) Hyderabad University
(c) O.P. Jindal University
(d) Madurai University

Q85. The area of Nepal is approximately how much square kilometres?

(a) 115187
(b) 128540
(c) 135789
(d) 147181

Q86. Which among the following has lowest electron affinity?

(a) Fluorine
(b) Chlorine
(c) Bromine
(d) Argon

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Q87. Which of the following statement(s) about acids is/are CORRECT?

I. They change the colour of red litmus to blue.

II. They change the colour of blue litmus to red.

III. They have pH value less than 7.

(a) Only I and III
(b) Only II and III
(c) Only I
(d) Only II

Q88. Comptroller and Auditor General of India submits the audit reports to _____.

(a) President of India
(b) Prime Minister of India
(c) Finance Minister of India
(d) Home Minister of India

Q89. Anti-defection law was passed in which Constitutional Amendment Act?

(a) 41^(st)Constitutional Amendment Act
(b) 46^(th)Constitutional Amendment Act
(c) 48^(th)Constitutional Amendment Act
(d) 52^(th)Constitutional Amendment Act

Q90. Why do the plant closes stomata when it does NOT need carbon dioxide for photosynthesis?

(a) To store carbon dioxide
(b) To prevent water loss
(c) To release stored oxygen
(d) No option is correct.

Q91. Alveoli are balloon like structures within the _____.

(a) lungs
(b) kidney
(c) liver
(d) heart

Q92. The SAMPADA (Scheme for Agro-Marine Processing Development of Agro-processing Clusters) scheme has been renamed to 'PMKSY'. What does 'K' standfor in 'PMKSY'?

(a) Kisan
(b) Kritrim
(c) Kaushal
(d) Kalyaan

Q93. Which is the second country in the world after France to construct a photovoltaic highway?

(a) China
(b) Japan
(c) Germany
(d) Canada

Q94. As per a report released by RBI in August 2017, approximately how much percent of the demonetised currency returned to the Central Bank?

(a) 99
(b) 90
(c) 85
(d) 80

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Q95. On 19 September 2017, Law Ministry approved Fugitive Economic Offenders Bill, 2017. It will allow FIU, the premier technical snoop wing under the FinanceMinistry, to file an application for declaration of fugitive economic offender. What does 'I' stand for in 'FIU'?

(a) Intellectual
(b) Intelligence
(c) Instruction
(d) Introduction

Q96. What is the power rating (in W) of a bulb if a current of 0.3 A passes through on application of 240 V of potential difference across its terminals?

(a) 800
(b) 36
(c) 400
(d) 72

Q97. In the equation of motion v = u + at, u represents _____.

(a) Initial velocity
(b) Final velocity
(c) Kinetic energy
(d) Potential energy

Q98. A cyclone is known by different names in different parts of the world. It is called a '_____ ' in Japan and Philippines.

(a) funnel
(b) whirlpool
(c) twister
(d) typhoon

Q99. Which of the statements given below are correct?

A) Julio Granda won the 2017 World Senior Chess Championship.
B) Tan Zhongyi won the 2017 World Junior Chess Championship.
C) Russia hosted the Golf 2017 Players Championship.

(a) Only A
(b) Only C
(c) Both B and C
(d) None of these

Q100. To delete columns or rows we can use the delete option under the _____ in Microsoft Word.

(a) Menu
(b) Standard toolbar
(c) Table Menu
(d) Drawing toolbar

ANSWER KEY

1	c	2	c	3	c	4	a	5	b	6	b	7	d	8	a	9	d	10	c
11	c	12	b	13	b	14	d	15	b	16	a	17	a	18	a	19	a	20	b
21	b	22	a	23	b	24	a	25	a	26	d	27	b	28	c	29	d	30	d
31	d	32	a	33	c	34	b	35	c	36	d	37	d	38	d	39	a	40	a
41	b	42	a	43	a	44	c	45	c	46	a	47	d	48	b	49	b	50	c
51	c	52	b	53	a	54	b	55	a	56	c	57	a	58	b	59	c	60	c
61	d	62	b	63	b	64	a	65	c	66	a	67	d	68	d	69	d	70	b

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71	b	72	d	73	d	74	a	75	a	76	b	77	d	78	b	79	b	80	b
81	d	82	b	83	c	84	c	85	d	86	d	87	b	88	a	89	d	90	b
91	a	92	a	93	a	94	a	95	b	96	d	97	a	98	d	99	a	100	c

SOLUTIONS

Q1. Answer: (c) 3

The correct answer is 3.

Key Points

• The error is in 3). Oddly is an adverb which being used to describe behaviour, a noun.

• Oddly (adverb) - ex. Kamal had been *behaving oddl*y.

Hence, the correct sentence is Her behaviour around him was a little odd.

Q2. Answer: (c) 3

The correct answer is 3.

Key Points

• The error is in 3. Notice that their has been used along with physical world.

• But we have not mentioned any noun previously such that the relevance could be determined through their.

Correct sentence: 'The more energy we give to a particular thought the greater is its power to attract its corresponding circumstance into the physical world through the law of attraction.'

Q3. Answer: (c) Of

The correct answer is Of.

Key Points

Reading the above sentence we find that

• We should fill in the blank with a proposition which is indicating the relationship between a verb and an indirect object.

• Here a relationship is established between the verb tired and the indirect object.

• Thus the correct answer here is Of as it is a preposition that indicates the relationship between a verb and an indirect object.

Therefore the correct sentence will be: I am tired of this, Chandler.

Q4. Answer: (a) Enables

The correct answer is Enables.

Key Points

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

• Enables - make it possible for.

• The only possible answer that fits perfectly is option 1(Enables).

Hence, the correct answer is 'Enables'.

Additional Information

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

Capable	Having the ability
Stable	Not likely to change or fail; firmly established
Able	Having the power, skill

Q5. Answer: (b) Disobedient

The solution is in Hindi. Read it online.

Q6. Answer: (b) Boredom

The correct answer is Boredom.

Key Points

• Let's look at the meaning of correct and marked option.

• Ennui means lack of excitement; boredom; lethargy.

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Hence, from the above meanings, we find that both Ennui and Boredom express the same meaning.

Additional Information

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

Continuation	The action of carrying something on overtime
Anger	A strong feeling of annoyance, displeasure, or hostility.
Struggle	Make forceful efforts to get free of restraint

Q7. Answer: (d) Spiritual

The correct answer is Temporal.

Key Points

Let's look at the meaning of correct and marked option-

• Temporal -relating to worldly as opposed to spiritual affairs; secular, non-spiritual, mundane.

• Spiritual- relating to people's thoughts and beliefs; unworldly, non-material, inner.

Hence, from the above meanings, we find that both Temporal and Spiritual express the opposite meaning.

Additional Information

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

Material	relating to, derived from, or consisting of matter; especially: physical
Fleshly	relating to the physical body, not the mind or the soul
Earthly	relating to the earth or human life.

Q8. Answer: (a) Cramped

The correct answer is Cramped.

Key Points

• Capacious means having a lot of space inside; roomy.

• Cramped (small or restricted) is an antonym of Capacious.

Hence, the correct answer is 'Cramped'.

Additional Information

Broad	Having a distance larger than usual from side to side; wide
Comfortable	As large as is needed or wanted, providing physical ease and relaxation
Generous	Larger or more plentiful than is usual or necessary, showing a readiness to give more of something,

Q9. Answer: (d) QPR

The correct answer is QPR.

Key Points

• The statement begins with In order to tone up. Tone up what? Clearly, a noun must follow it.

• Only Q fulfills this criterion as it begins with the physical education program. Q is first in the sequence.

• Option 4) QPR is the correct answer.

Hence, the correct order of the sentence is,

'In order to tone up the physical education programme, it should be reoriented and implemented'.

Q10. Answer: (c) An application will be written by my sister.

The correct answer is An application will be written by my sister.

Key Points

• The given sentence is in active voice and is an assertive statement.

• While converting from active to Passive, the sentence undergoes the following changes:

• Rules of Conversion from Active to Passive Voice:

• Identify the subject, the verb and the object: S+V+O

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• Change the object into subject
• The active verb does not have an object. Therefore, the passive form should begin with you.
• Change the verb into past participle of the verb
• Change the subject into object

The sentence in active voice is in the future tense (will write). Thus, the active voice will be of the form: will be + past participle of write i.e written.

Hence, the correct answer is: 'An application will be written by my sister'.

Q11. Answer: (c) Rita exclaimed sadly that she was undone.

The correct answer is Rita exclaimed sadly that she was undone.

Key Points

• Alas is used to express grief; sadness; concern. It is an exclamation.
• Option 3) Rita exclaimed sadly that she was done is the most appropriate choice,

as it does not exclude the information she was sad, which is not achieved through the other 3 options.

• Note: You can't use Alas in reported speech (option 4)

Hence, the correct answer is 'Rita exclaimed sadly that she was undone'.

Q12. Answer: (b) Millennia

The correct answer is Millennia.

Key Points

• Millennia is the right spelling.
• plural of millennium = a period of thousand years.

Hence, the correct answer is 'Millenia'.

Additional Information

Measurement of years	Number of years
Biennium	2 years
Lustrum	5 years
Decade	10 years
Century	100 years
Millennium	1000 years

Q13. Answer: (b) Or

The correct answer is Or.

Key Points

• Debate and argument are synonyms.
• The writer is giving another choice for the reader to read and understand.
• Other options don't make sense.

Hence, the correct sentence is 'witnessed a debate or argument between'.

Q14. Answer: (d) Equally

The correct answer is Equally.

Key Points

• Clearly, the blank requires an adverb.
• Option 4) Equally is the only possible choice.
• Other options don't make sense.

Hence, the correct sentence is, 'two men equally strong intellectually'.

Q15. Answer: (b) Upon

The correct answer is Upon.

Key Points

• You leave an impression on/upon someone. Think of impression as a stamp. You put a stamp on something.

• Other options don't make sense.

Hence, the correct sentence is, 'impression produced upon him by the unequal'.

Additional Information

Up (adverb)	**Towards a higher position; towards a higher value, number, or level: ex. Our boardroom is up on the 23rd floor.**
Into (preposition)	To the inside or middle of a place ex. She was looking straight into his eyes.
In (preposition, adverb, adjective)	Inside, within ex. *What's that in your hand? (preposition)* ex. We were locked in (adv.) ex. There was no one in (adj.)

Q16. Answer: (a) Powerful

The correct answer is Powerful.

Key Points

• Here we are supposed to describe the wrestler, we need to use an adjective.

• Powerful is an adjective.

• Other options don't make sense.

Hence, the correct sentence is, 'like that of a powerful wrestler, untrained'.

Additional Information

Power (noun)	**Ability to act or produce an effect ex. family with a lot of social power**
Powerful (adj.)	Ex. The country is becoming more and more powerful.
Powerfully (adv.)	Ex. She expressed her opinions very powerfully.

Q17. Answer: (a) Trained

The correct answer is Trained.

Key Points

• Notice how experienced has been used to describe the other wrestler. Since the composition of the sentence should be uniform throughout.

• The past tense of train will be used - trained.

• And other options don't make sense.

Hence, the correct sentence is, 'certain place, with a trained and experienced wrestler'.

Q18. Answer: (a) Broadcast over the radio or on TV.

The solution is in Hindi. Read it online.

Q19. Answer: (a) Someone or something with potential or talent but lacking training or polish

The correct answer is Someone or something with potential or talent but lacking training or polish.

Key Points

• A person is called a diamond in the rough when he or she is having exceptional qualities or potential but is lacking in refinement or polish i.e training or education.

• ex. This show is one of those diamonds in the rough, a wonderful gem that almost no one has noticed.

• Diamond in the rough means underrated, unnoticed.

Hence, the correct answer is 'Someone or something with potential or talent but lacking training or polish'.

Q20. Answer: (b) Conjecture

The correct answer is Conjecture.

Key Points

• A conjecture is a noun and it means 'an opinion or conclusion formed on the basis of incomplete information.'

• Example: There's been a lot of conjecture in the media recently about the marriage

• Synonyms*- speculation. surmise, fancy.*

**Hence, the correct answer is 'Conjecture'.

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Additional Information

Proof	**Evidence, verification** **Ex. Keep your receipt as proof of purchase.**
Clincher	A fact, argument, or event that settles a matter conclusively Ex. The last sentence was the clincher
Averment	An affirmation or allegation. Ex. I aver that the term is not at all applicable to the religious denominations in this country.

Q21. Answer: (b) Immunity

The correct answer is Immunity.

Key Points

• Immunity means marked by protection, or not susceptible. ex. some criminal leaders are immune from arrest

• (especially: having a high degree of resistance to disease) ex. he is immune to diphtheria.

**Hence, the correct answer is 'Immunity'.

Additional Information

Castigation	**Severe criticism.** **ex. The judge castigated the lawyers for their lack of preparation.**
Penance	The punishment inflicted on oneself as an outward expression of repentance for wrongdoing. ex. He did charitable work as a penance.
Ostracism	Exclusion from a society or group. ex. Ostracism is a common fate for tell-all writers.

Q22. Answer: (a) Have been

The correct answer is Have been.

Key Points

• I will be followed by have, not has.

• Being is used to represent continuity in action. This is not the case here. Moreover, have being is a grammatically incorrect phrase.

**Hence, the correct sentence is 'I have been fortunate to travel with interesting co-passengers'.

Q23. Answer: (b) Were finally installed

The correct answer is Were finally installed.

Key Points

• Doors is a plural word hence were to be used.

• Sufficed till indicates past tense.

• Thus, the door installation is already done, installed.

**Hence, the correct sentence is 'A bed sheet hung on the doorway sufficed till the doors Were finally installed'.

Q24. Answer: (a) BCA

The correct answer is BCA.

Key Points

• The labeled sentences, if taken together, carry a particular meaning:

• Everyone around the narrator was an early-riser and he was a misfit among them.

• Since the sentence starts with 'Everyone around', B immediately follows 'everyone around'.

• C logically follows B as it talks about the nature of everyone around the narrator.

• A follows C as it provides a fitting conclusion to the sentence.

• if you try to connect last words with the first word of each part 'around me' and '*t*o* be an'* makes sense.

Hence the correct sentence is,-'Everyone around me turned out to be an early riser and I stood as a misfit among them'.

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Q25. Answer: (a) declination

The correct answer is declination.

Key Points

• The correct spelling is Declination.

• Declination means a condition inferior to an earlier condition; a gradual falling off from a better state.

Hence the correct answer is 'Declination'.

Q26. Answer: (d) Green : Colour

Truck is one type of Vehicle. Similarly, Green is one type of Colour.

Hence, the answer is options 4.

Q27. Answer: (b) 549

446 - 3 = 443

Same as, 552 - 3 = 549.

Hence, the answer is 549.

Q28. Answer: (c) NVG

HER : SVI

(H, S), (E, V) and (R, I) are reverse letter-pairs.

Similarly,

(M, N), (E, V) and (T, G) are reverse letter-pairs.

Hence, the answer is NVG.

Q29. Answer: (d) Animal - Bird

Except option 4, rest of the alternatives related to each other.

Hence, the answer is option 4.

Q30. Answer: (d) 16 - 24

Except option 4, the difference between the numbers of the rest of the alternatives is 4.

Hence, the answer is option 4.

Q31. Answer: (d) FGJM

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

The pattern followed here is:

1) CDFI →

2) RSUX →

3) JKMP →

4) FGJM →

So, "FGJM" does not follow the same pattern as other options.

Hence, the correct answer is “FGJM”.

Q32. Answer: (a) 54213

According to the sequence in the English dictionary:

The correct order of the given words is:

5. Jealous

4. Jewel

2. Juggling

1. Jumbo Jet

3. Justice

Hence, the correct answer is 54213.

Q33. Answer: (c) 25

The pattern followed here is:

Hence, the correct answer is "25".

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Q34. Answer: (b) TR

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

The pattern followed here is :

Hence, the correct answer is "TR".

Q35. Answer: (c) 116

1) Rahul's position from the right end is 39th

2) Pankaj's position from the left end is 53rd

3) After interchanging their position, Rahul's position becomes 64th from the right end

Their current position Rahul is the same as the previous positions of Pankaj.

The number of boys is = (Position of Pankaj from the left end + Position of Rahul from the right end - 1)

= (53 + 64 - 1)

= 116

Hence, the correct answer is "116".

Q36. Answer: (d) ACTING

1) INK - RANKING → Word can be formed

2) RAIN - RANKING → Word can be formed

3) KING - RANKING → Word can be formed

4) ACTING - RANKING (Word cannot be formed because T and C is missing)

Hence, the correct answer is "ACTING".

Q37. Answer: (d) TDXJY

According to the English alphabet and their positional values:

The logic followed here is:

PRANK → RUESQ

Similarly,

RATES → TDXJY

Hence, the correct answer is "TDXJY".

Q38. Answer: (d) 8

The coded sign is as below:

•	•	×	÷
•	×	÷	•

Given that: 10 + 20 x 10 ÷ 20 - 8

After change the equation: 10 x 20 ÷ 10 - 20 + 8

= 10 x 2 - 20 + 8

= 20 - 20 + 8

= 8

Hence, the correct answer is "8".

Q39. Answer: (a) • and x

Given equation: 16 ÷ 8 - 5 x 2 + 6

1) After interchange: '+ and x'

16 ÷ 8 - 5 + 2 x 6 = 9

2 - 5 + 2 x 6 = 9

2 - 5 + 12 = 9

14 - 5 = 9

9 = 9

2) After interchange: '+ and ÷'

16 + 8 - 5 x 2 ÷ 6 = 9

16 + 8 - 5 x 0.33 = 9

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24 - 1.65 = 9

22.35 ≠ 9

3) After interchange: '- and +'

16 ÷ 8 + 5 x 2 - 6 = 9

2 + 5 x 2 - 6 = 9

2 + 10 - 6 = 9

6 ≠ 9

4) After interchange: '÷ and x'

16 x 8 - 5 ÷ 2 + 6 = 9

16 x 8 - 2.5 + 6 = 9

144 - 2.5 + 6 = 9

150 - 2.5 = 9

147.5 ≠ 9

Hence, the correct answer is "+ and x".

Q40. Answer: (a) 4

The logic followed here is,

(The sum of two numbers) ÷ 2 = Third Number

4!4 → (4 + 4) ÷ 2 = 4.

14!2 → (14 + 2) ÷ 2 = 8.

10!18 → (10 + 18) ÷ 2 = 14.

Similarly,

2!6 → (6 + 2) ÷ 2 = 4.

Hence, the correct answer is "4".

Q41. Answer: (b) AAAABAA

The logic is:

The position of B is shifting as follows:

BAAAAAA → B at the first position.

AAAAAAB → B at the last position

ABAAAAA → B at second position

AAAAABA → B at second last position

AABAAAA → B at third position

Similarly,

AAAABAA → B should be at third last position

Thus, the correct answer is "AAAABAA".

Q42. Answer: (a) 3 miles South

The flow of river from town A to to town B is shown below,

Thus, town A is 3 miles South with respect to town B.

Hence, the correct answer is "3 miles South".

Q43. Answer: (a) Only conclusion I follows

Some phones are devices → Follows (As all phones are devices, some phones being device is obvious and definite.

No devices are phones → Does not follow (As all phones are devices, at least some devices will be phones).

Thus, the correct answer is "Only conclusion I follow".

'Some' is a subset of 'All'. If in statements it is given that 'All A are B' then the conclusion 'Some A is B' would always be True.

Q44. Answer: (c) B

Asians who are Art critics as well as Engineers will be represented by the common area bounded by the Rectangle, Circle and Square,

and the shaded region, B, represents our required answer.

Hence, the correct answer is, "B".

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Q45. Answer: (c) DSB

Table showing the positional values of letters in alphabetical series

The logic followed here is,

Each letter of the term is shifted backwards by three places to get the next term.

Hence, the correct answer is "DSB".

Q46. Answer: (a) 85

The logic followed here is,

Four is subtracted from a term to get the next term.

Thus, the correct answer is "85".

Q47. Answer: (d) (4, 44, 4444)

The pattern followed here is,

Options are consecutive multiples of (1, 11, 111)

Applying the above logic to each option, we get

1) (2, 22, 222) = 2 × (1, 11, 111)

2) (3, 33, 333) = 3 × (1, 11, 111)

3) (1, 11, 111) = 1 × (1, 11, 111)

4) (4, 44, 4444) ≠ 4 × (1, 11, 111)

Thus, option 4 does not follow the pattern mentioned above and it is the odd one out.

Hence, the correct answer is, "(4, 44, 4444)".

Q48. Answer: (b) [figure]

The mirror image of the object when a mirror is placed on the right side of the object is shown below,

Hence, the correct answer is, "Option 2".

Q49. Answer: (b) [figure]

CONCEPT :

Types of figure generally given in the exams.

The clearly seen alternate position of the open dice becomes the opposite pair after folding and the two remaining faces also become opposite to each other.

Here, In every figure:

A is opposite to C.

B is opposite to D.

Thus the remaining, E is opposite to F.

Important Points

Opposite pair of faces cannot appear in the adjacent faces of the cube when folded.

EXPLANATION :

In Option 2

the star and 5 dots appear at the adjacent places which is not possible to form from the question figure.

Hence, option 2 is the correct answer.

Q50. Answer: (c) 30, 42, 32, 77

Applying the logic as per the information given in the question, we get

1) 33, 86, 33, 78 → K, P, K, V

2) 14, 58, 22, 56 → H, Y, D, V

3) 30, 42, 32, 77 → K, I, L, T

4) 21, 79, 42, 97 → H, T, I, P

Hence, the correct answer is "30, 42, 32, 77".

Q51. Answer: (c) 72

Calculation:

Let the number be x which is greater or less than 49 and 95 with same difference

According to the question

x - 49 = 95 - x
=> 2x = 144
=> x = 72
Therefore Number is 72
Shortcut Trick
According to the question we have to find the middle number from 49 to 95, which is the average from 49 to 95
Required number = (49 + 95)/2 = 144/2 = 72

Q52. Answer: (b) Rs. 1,400

Given:
Tanzeem spent 1/5 of his salary on his friend
1/10 of the salary on accommodation
1/4 of the salary was his saving
The total salary left is Rs. 1800
Formula used:
Monthly salary = Saving + expenditure
Calculation:
Let the total salary of Tanzeem be x
Remaining amount = Total Amount - the amount spent from salary
Remaining amount = x - (1/5 + 1/10 + 1/4)x = 9x/20
So, 9x/20 = 1800
=> x = 4000
Therefore Total expenditure on accommodation and savings = (1/10 + 1/4) × 4000 = Rs 1400

Q53. Answer: (a) 0

Given:
z + 2/z = 2
Calculation:
z + 2/z = 2
=> z^2 + 2 = 2z
=> z^2= 2z - 2
Putting z^2= 2z - 2 we get,
(2 - 2z + z^2) (2 + 2z - z^2) = 0 × (2 + 2z - 2z + 2) = 0
Therefore Value of the given expression is 0

Q54. Answer: (b) 5

Calculation:
x = √(20 + √(20 + √(20 + √(20 + … ∞))))
=> x = √(20 + x)
Squaring both sides,
=> x^2 = 20 + x
=> x^2 - x - 20 = 0
=> x^2 - 5x + 4x - 20 = 0
=> x (x - 5) + 4 (x - 5) = 0
x = 5 as x cannot be negative.
Therefore The correct answer is 5
Shortcut Trick
If the given expression is like this √(x + √(x + √(x + … ∞)))
Then try to find its factors, and from the two factors which makes x the greater one will be the answer
Here,
x = 20 can be written as = 5 × 4
In this case, 5 is greater than 4 hence the answer will be 5
Therefore Value of x = 5

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Q55. Answer: (a) circum-centre

Shortcut Trick

The point of intersection of perpendicular bisectors of the sides of a triangle is the circum-centre.

Memory Aid for Triangle Centers:

1. Perpendicular Bisectors → Circum-centre (Center of circumcircle)

2. Altitudes → Orthocentre

3. Medians → Centroid

4. Angle Bisectors → In-center (Center of incircle)

Therefore The correct answer is circum-centre.

Alternate Method

Given: A triangle with its perpendicular bisectors intersecting at a common point.

Property Used: The circum-centre is the point that is equidistant from all three vertices of the triangle, allowing a circle (the circumcircle) to pass through them.

=> A perpendicular bisector is a line that divides a side into two equal parts and meets it at a 90° angle.

=> In any triangle, the three perpendicular bisectors are concurrent (they meet at a single point).

=> This point of concurrency is called the circum-centre.

=> The distance from the circum-centre to any vertex is the circum-radius (R).

Therefore The correct answer is circum-centre.

Additional Information

Orthocentre

The point where the three altitudes (perpendiculars drawn from vertices to opposite sides) of a triangle intersect.

Centroid

The point where the three medians (lines connecting vertices to the midpoints of opposite sides) intersect; it divides each median in a 2:1 ratio.

In-center

The point of intersection of the internal angle bisectors; it is the center of the incircle which touches all sides of the triangle.

Euler Line

In any non-equilateral triangle, the orthocentre, centroid, and circum-centre are collinear, and the centroid divides the distance between the other two in a 2:1 ratio.

Q56. Answer: (c) 18

Given:

the radius of the circum-circle of an equilateral triangle is 12 cm

Concept used:

Median of a triangle divide itself in the ratio of 2 : 1 at its centroid and in case of equilateral triangle centroid, circum-centre, in centre, ortho centre all lie at the Centre.

Calculation:

Let the height of the triangle be x

radius of the circle circumscribing the three vertices of triangle

= (2/3) × x = 12

=> x = 18 cm

Therefore Height of the triangle is 18 cm

Shortcut Trick

We know, radius of a circumcircle of an equilateral triangle is a/√3

Where, a be the sides of the triangle.

So, according to the question,

=> a/√3 = 12

=> a = 12√3

So, the height of the equilateral triangle is √3/2 × 12√3 = 18 cm

Q57. Answer: (a) 41.67%

Given:

P = 350 and Q = 600

Calculation:
Required % = [(600 - 350)/600] × 100 = 41.67%
Therefore P is 41.67% less than Q

Q58. Answer: (b) 80

Given:
The ratio of two numbers is 5 : 4. If the sum of both the numbers is 180
Calculation:
Let the two numbers be 5x and 4x
According to the question,
5x + 4x = 180
=> 9x = 180
=> x = 20
Smaller number = 4x = 4 × 20 = 80
Therefore the smaller number is 80

Q59. Answer: (c) 20000

Given:
P invest Rs. 35000 for 2 years, Q invest Rs. 21000 for 1 year
Concept used:
• Profit = Investment × Time
Calculation:
According to the question:
P : Q = 35000 × 24 : 21000 × 12 =10: 3
P's share = (10/13) × 26000 = Rs. 20000
Therefore Share of P is Rs. 20,000.

Q60. Answer: (c) 6.5

GIVEN:
31x + 31y = 403
FORMULA USED:
Average = sum of numbers/total numbers
CALCULATION:
According to the question,
=> 31(x + y) = 403
=> x + y = 403/31 =13
So, Average of x + y = 13/2 = 6.5
Therefore Average of x and y is 6.5

Q61. Answer: (d) 540

Calculation:
Let the first part be x and second part be 7500 - x
According to the question,
S.I of x = S.I of (7500 - x)
=> (x × 12 × 1)/100 = [(7500 - x) × 18 × 1]/100
=> 2x = 3(7500 - x)
=> 2x = 22500 - 3x
=> 5x = 22500
=> x = 22500/5
x = 4500
So, first part is Rs. 4500 and second part is Rs. 3000
Interest on first part = (4500 × 12 × 1)/100 = Rs. 540
Therefore The interest on first part is Rs. 540

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Q62. Answer: (b) 13%

Given:

Selling price = Rs.13924

Profit = 18 %

Calculation: Let the Cost Price be 100x

=> 13924 = 100x × 118/100

=> x = 13924/118 = 118

So, the Cost Price of calculator = 100 × 118 = 11800

Now, the Selling price is changed to Rs.10266

Loss % = [(11800 - 10266)/11800] × 100 = 13%

Therefore Loss percentage is 13.

Shortcut Trick

Cost price of the calculator = 13924/118 × 100 = Rs. 11800

Loss percentage = (11800 - 10266)/11800 × 100 = 1534/118 = 13%

Q63. Answer: (b) 120%

Calculation:

Let the Cost Price of the belt be 100x

So to gain 21% profit Selling Price = 121x

According to the question

=> 121x = Marked Price × (55/100)

=> Marked Price = 121x × (100/55) = Rs.220x

For Cost Price = 100x, the Marked Price was 220x

Marked up difference = 220x - 100x = 120x

Therefore the marked price is marked up by 120%

Shortcut Trick

Let cost price be Rs. 100

=> Marked price = (100 × 121)/55 = Rs. 220

=> Desired percentage = (220 - 100)/100 × 100 = 120%

Q64. Answer: (a) 22

Calculation:

√(513 - √144 - √81 -√64)

=> √(513 - 12 - 9 - 8)

=> √(513 - 29)

=> √484 = 22

Therefore the value is 22

Q65. Answer: (c) 3

Calculation:

Let the capacity of the tank = 72 litres

Efficiency of pipe P = 72/24 = 3 litres/hour

Efficiency of pipe Q = 72/18 = 4 litres/hour

According to the question,

Total time in which tank has filled = 15 hours

Let the pipe P was closed at after n hours

According to the question

=> 3 × (n) + 4 × 15 = 72

=> 3n + 60 = 72

=> 3n = 12

=> n = 4

So, 4 hours after 11:00 am. that means 3:00 pm

Therefore the tap P should be closed at 3 : 00 pm

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Confusion Points

Not asking about after how many hours the tap should be stopped. It is asking about the time (in p.m.) when the tap will be stopped. [Which is mentioned in the question]

Start at 11 a.m + 4 hours = 3 p.m

Q66. Answer: (a) 4

Shortcut Trick Formula used:

Required distance is given by

D=(S1× S2)/(S1-S2)× (t1-t2)

Whichever is greater can be taken first from S1 and S2 same for t1

and t2 greater one is taken first in subtraction

Calculation:

Let the correct time be 't'

=> D = (4× 5)/(5-4)×(t+6)-(t-6)/60 (Because 1 min = 1/60 hr)

=> D = 20 × 12/60 = 4

Therefore The required distance is 4 Km.

Alternate MethodLet the distance between school from house is D

Actual time at which he must have reached school = t in minutes

According to the question,

4 = D/(t + 6)

=> D = 4 (t + 6) ----(i)

And,

=> D = 5(t - 6) ----(ii)

From eq. (i) and (ii)

4t + 24 = 5t - 30

t = 54 minutes

Distance, D = [4 × (54 + 6)]/60 = 4 km

Therefore The required distance is 4 Km.

Q67. Answer: (d) 2013

Given:

Students Passed with Distinction

2012 = 7000

2013 = 1500

2014 = 3500

2015 = 6500

Calculation:

In 2011 students passed with Distinction = 2000

In 2012 Distinction students increased from 2011.

In 2013 Distinction students decreased from 2012.

In 2014 Distinction students increased from 2013.

In 2015 Distinction students increased from 2014.

Therefore The number of students who passed with distinction decreased in 2013.

Q68. Answer: (d) 3000

Number of passed students in 2014 = 3500

Number of passed students in 2017 = 6500

Therefore Difference in the number of students who passed with distinction between the years 2017 and 2014 = 6500 - 3500 = 3000

Q69. Answer: (d) 250%

Number of passed students in 2012 = 7000

Number of passed students in 2011 = 2000

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Therefore Required % = [7000 - 2000)/2000] × 100 = 250%

Q70. Answer: (b) 15500

Total students passed in last three years i.e. in 2015, 2016 and 2017 = 6500 + 2500 + 6500 = 15500

Therefore Number of certificate provided will be 15500.

Q71. Answer: (b) 25

Given:

Length of rectangle = 24 cm

Breadth of rectangle = 7 cm

Concept used:

• Diagonal² = Leangth² + Breadth²

Calculation:

Length of diagonal = √(24²+ 7²) = √(576 + 49) = √625 = 25 cm

Therefore Diagonal of the rectangle is 25 cm

Q72. Answer: (d) 66

Given:

The radius of a circle is 10.5 cm

Concept used:

Circumference of circle = 2πr, where r = radius

Calculation:

=> Circumference = 2 × (22/7) × 10.5 = 66 cm

Therefore Circumference (in cm) of a circle is 66 cm.

Q73. Answer: (d) 4620

Given:

Diameter of cylinder = 42 cm, r = D/2 = 42/2 = 21 cm, height of cylinder = 14 cm

Concept used:

Total Surface area of cylinder = 2πr(r + h)

Calculation:

Total Surface area of cylinder = 2 × (22/7) × 21 × 35 = 4620 cm²

Therefore Total surface area (in cm²) of a right circular cylinder = 4620 cm²

Q74. Answer: (a) 3/2

Concept used:

• sin30° = 1/2

Calculation:

=> (2 - sin30°)

=> 2 - 1/2

=> 3/2

Therefore The correct answer is 3/2

Q75. Answer: (a) 13/5

Calculation:

Pythagoras theorem

$QR^2 = PR^2 - PQ^2$

=> $QR^2 = 169 - 25$

=> QR = √144 = 12 cm

Therefore Cosec R = PR/PQ = 13/5

Key Points

In a right angle triangle base and height change according to the acute angle.

The opposite side of an acute angle is always considered as the height of the right angle triangle.

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Q76. Answer: (b) makes the monetary policies less effective

The correct answer is makes the monetary policies less effective.

Key PointsBlack Money

• In India, money earned through illegal means is called black money or in other terms can be said more money is earned than the tax limit but tax is not paid.

• Even if they pay taxes, the taxes are not in the correct proportion of their income.

• The illegal activities that can lead to black money generation are crime, corruption, non-compliance with tax requirements, complex procedural regulations, money laundering, and smuggling.

Parallel Economy:

• The parallel economy is the functioning of an unsanctioned sector in the economy whose objectives run opposite to the objectives of the official, sanctioned, or legitimate sector. The parallel economy has political, commercial, legal, industrial, social, and ethical aspects.

• The prevalence of black money gives rise to a parallel economy. The term parallel economy is also referred to as black economy, unaccounted economy, illegal economy, subterranean economy, or unsanctioned economy.

Important PointsImpacts of Parallel Economy

• The parallel or black economy creates hindrances in the effective implementation of monetary policies. This results in unexpected outcomes and it becomes difficult for the institutions to take the right corrective measures in the economy.

• Cryptocurrency and unrecorded cash transactions in e-commerce are two new ways for unfriendly elements in the country to obtain resources.

• Organized crime is on the rise in India, particularly in metro centers like Mumbai and Delhi, because to a thriving parallel economy.

• The parallel economy is the greatest source of financial help to extremists.

• There have recently been allegations of illicit firearms being seized and public firing by persons. In India, black money is a common source of the illegal arms trade.

Q77. Answer: (d) 2 and 3 both

'GaribiHatao' (removal of poverty) was the main objective of the Fifth five-year plan(1974-79), and 'Growth with Stability' was the main objectives of Fourth Five Year Plan (1969-1974). It was launched by Indira Gandhi government. The aim of this five-year plan was to increase national income by 5.5 per cent. It aimed at creating economic stability and achieve social justice with equality.

Q78. Answer: (b) Sarnath

• "Dhamek Stupa" is located at Sarnath, near Varanasi in Uttar Pradesh, India.

• It was built by Emperor Ashoka.

• It is cylindrical in shape and made up of red bricks and stones.

• It marks up the place where Lord Buddha preached his first sermon.

Q79. Answer: (b) September 1920 to February 1922

• Non-cooperation Movement was conducted from September 1920 to February 1922. It was initiated by Gandhi after the Jallianwala Bagh Massacre.

• People started protesting with Non-Ahimsa and at the same time boycotted British goods. After the Chauri-Chaura incident, Gandhi withdrew the movement.

• https://knowindia.gov.in/culture-and-heritage/freedom-struggle/the-non-cooperation-movement.php

Q80. Answer: (b) Mexico

The correct answer is Mexico

Key Points

• The countries through which the Equator passes are Ecuador, Colombia, Brazil, Sao Tome & Principe, Gabon, Republic of the Congo, Democratic Republic of the Congo, Uganda, Kenya, Somalia, Maldives, Indonesia and Kiribati.

• Thus, the Equator does not pass through Mexico.

• The equator is an imaginary line around the middle of the earth. It is halfway between the North Pole and the South Pole, at 0 degrees latitude. It divides the earth into a Northern Hemisphere and a Southern Hemisphere. Please note that the Earth is widest at its Equator.

Q81. Answer: (d) Manipur

The correct answer is Manipur

Key Points

• The capital of Arunachal Pradesh is Itanagar.
• The domestic borders of Arunachal Pradesh include Assam and Nagaland.
• Manipur does not touch the boundary with Arunachal Pradesh.
• While the international borders of Arunachal Pradesh include: Bhutan, Myanmar and China.

Q82. Answer: (b) Dance

The correct answer is Dance.

Key Points

• Achchhan Maharaj whose original name was Jagannath Maharaj is associated with Dance.
• He was a great Kathak Dancer of Lucknow Gharana.
• He was the father and guru of Pt. Birju Maharaj.
• In the loving memory of Achchhan Maharaj, a two-day live dance and music were inaugurated in New Delhi in January 2018 in presence of Pt. Birju Maharaj.

Q83. Answer: (c) Russia

In December 2017 Russia has signed an agreement with Sudan to build a nuclear power plant in the nation in order to produce electricity. The Russian State Corporation for Atomic Energy has signed this agreement. It will allow Sudan to tackle energy security problem.

Q84. Answer: (c) O.P. Jindal University

O.P. Jindal University has been ranked at the top in the Swachhta Ranking 2017 released by the Union Government. The award ceremony was held in New Delhi and Union HRD Minister, Shri Prakash Javadekar distributed the awards. Among 3500 institutes which participated in it, 25 institutes were given prizes in different categories.

Q85. Answer: (d) 147181

The correct answer is 147181.

Key Points

• The area of Nepal is approximately 147181 square kilometres.
• It is bordered by India and Tibet (China). Its capital is Kathmandu and its currency is the Nepalese rupee.
• Nepal is a land-locked country with Bidhya Devi Bhandari as President.

Q86. Answer: (d) Argon

The correct answer is Argon.

Key Points

• Argon has all filled orbitals as well as a filled valence shell.
• As a result, it doesn't want to lose or gain any electrons.
• Hence, argon has the lowest electron affinity.

Important Points

• Electron affinity is the change in energy of a neutral atom (gaseous phase) when an electron is added to the atom to form a negative ion.
• Electron affinity increases from left to right in the Periodic Table.
• Electron affinity decreases down the groups.
• The electronic affinity of the Noble gases, Alkali metals, and Alkali earth metals are close to zero.

Additional Information

Fluorine

• Atomic number: 9.
• Symbol: F.
• Most electronegative element.
• First isolated by Henri Moissan.

Bromine

• Atomic number: 35.
• Symbol: Br.
• It is the third-lightest halogen and is a fuming red-brown liquid at room temperature that evaporates readily to form a similarly coloured gas.
• Its properties are thus intermediate between those of chlorine and iodine.

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Chlorine

• Atomic number 17.

• Symbol Cl.

• Discovered by Carl Wilhelm Scheele.

• Second-lightest of the halogens.

Q87. Answer: (b) Only II and III

I. They change the colour of red litmus to blue. - Incorrect

II. They change the colour of blue litmus to red. - Correct

III. They have pH value less than 7. - Correct

Concept:

ACID:

• It is an ion or a molecule that is capable of donating a hydrogen ion i.e. proton.

• It has a sour taste.

• It is corrosive in nature.

• it changes the colour of litmus, from blue to red.

• Its name come from the Latin word "acidus". which means "sour" and refers to the sour taste of many acids.

• Its ph value range is between 1 to 7.

• example: HCL, H_2SO_4 etc

BASE:

• The base gives off hydroxyl ion when dissolved in water.

• it changes red litmus paper to blue

• It has a bitter taste

• Its pH value range is between 7 to 14.

• Example: NaOH, KOH etc.

Indicator:

• It is something that gives information or shows a sign.

• Examples of Indicators of acid and base are:

• Litmus paper

• Methyl orange

• Phenolphthalein.

Explanation:

	Red Litmus	Blue Litmus
Acidic solution	Stays red	Turns red
Neutral solution	Stays red	Stays blue
Alkaline solution	Turns blue	Stays blue

Additional Information

Indicator	Acidic	Neutral	Alkaline
Methyl orange	Red	Neutral	Yellow
Phenolphthalein	Colourless	Colourless	Pink

Q88. Answer: (a) President of India

The correct answer is President of India.

Key PointsArticle 151 - Audit reports

• CAG submits audit reports relating the accounts of the Centre to the president, who shall, in turn, place them before both Houses of Parliament, similar

• CAG submits audit reports relating the accounts of the state to the governor, who shall, in turn, place them before the state legislature.

Important Points

• The Constitution of India (Article 148) Provides an independent office of the Comptroller and Audit General of India (CAG). He is

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the head of the Indian Audit and Accounts Department.

• Article 148 - Comptroller and Auditor General of India

• He holds office for a period of six years or up to the age of 65 years (whichever is earlier).

• Appointed by – The President

• Salaries/allowance - Second Schedule

• Removal – similar to Supreme Court Judge

• Further office - Not Eligible after Retirement

• Administrative Expenses – Charged upon Consolidated Fund of India

• Article 149 – Authorises the Parliament to prescribe the duties and powers of the Comptroller and Auditor General in relation to the accounts of the Union and the states and any other authority or body.

• Article 150 - Form of accounts of the Union and the states.

• CAG advises the President about prescriptions in which the accounts of the Centre and the states shall be kept.

Q89. Answer: (d) 52^(th)Constitutional Amendment Act

The correct answer is 52th Constitutional Amendment Act.

Key Points

• Anti-defection Law was passed in 52^(th)Constitutional Amendment Act.

• A new schedule, the 10^(th) Schedule was added to the Indian Constitution.

• According to this law, the legislators may be disqualified on account of defection.

• The Anti-defection law was passed by Parliament in 1985 and reinforced in 2002.

• The 10th Schedule of the Indian Constitution popularly referred to as the ‘Anti-Defection Law’ was inserted by the 52nd Amendment (1985) to the Constitution.

• ‘Defection’ has been defined as, “To abandon a position or association, often to join an opposing group”.

• The anti-defection law was enacted to ensure that a party member does not violate the mandate of the party and in case he does so, he will lose his membership in the House. The law applies to both Parliament and state assemblies.

• The Anti-Defection Law aims to prevent MPs from switching political parties for any personal motive.

Additional Information The Tenth Schedule includes the following provisions with regard to the disqualification of MPs and MLAs on the grounds of defection:

Grounds for disqualification:

• If an elected member gives up his membership in a political party voluntarily.

• If he votes or abstains from voting in the House, contrary to any direction issued by his political party.

• If any member who is independently elected joins any party.

• If any nominated member joins any political party after the end of 6 months.

• The decision on disqualification questions on the ground of defection is referred to the Speaker or the Chairman of the House, and his/her decision is final.

• All proceedings in relation to disqualification under this Schedule are considered to be proceedings in Parliament or the Legislature of a state as is the case.

Q90. Answer: (b) To prevent water loss

Key Points

• Stomata are the pores on the plant skin.

• They help in the exchange of carbon dioxide and oxygen.

• Guard cells help stomata to open and close.

• Also, plant closes stomata when it does not need carbon dioxide for photosynthesis to prevent water loss.

Q91. Answer: (a) lungs

The correct answer is lungs.

Key Points

• Alveoli, balloon-like structures are tiny air sacs within the lungs.

• The respiratory system comes into direct contact with the circulatory system through them.

• They pass carbon dioxide in the blood to the lungs while oxygen in the lungs is passed into the blood.

• The site of gaseous exchange in the lungs is Alveoli.

• The alveoli are where the lungs and the blood exchange oxygen and carbon dioxide during the process of breathing in and

breathing out.

• Oxygen breathed in from the air passes through the alveoli and into the blood and travels to the tissues throughout the body.

Additional InformationKidney-

• Located: in the abdomen, just below the rib cage, one on each side of your spine.

• Shape: bean shape

• Measurement: 12 × 6 × 3

• Weight of each kidney

• Male- 125 to 170 gram

• Female- 115 to 155 grams

• A nephron is the structural and functional unit of the kidney.

liver-

• The liver is the largest gland of the human body. It performs the function of detoxification of harmful substances in the body

• For example, it converts harmful ammonia into urea, It also breaks down alcohol and other such substances in the blood.

• The liver has phagocytic cells that eliminate dead blood cells & bacteria from the blood, they are called the Kupffer cells

• Kupffer cells are also known as stellate macrophages. They are located in the lumen of liver sinusoids attached to their endothelial cells.

heart-

• The heart is the muscular pumping organ that pushes the blood around the body.

• Blood transports carbon dioxide to the lungs for oxygen from the cells for removal and carries oxygen from the lungs to the heart and the heart pumps the blood to all the cells of the body.

• A typical heart has two upper and two lower chambers.

• The upper chambers, the right, and left atria receive incoming blood.

• The lower chambers, the more muscular right and left ventricles pump blood out of the heart.

Q92. Answer: (a) Kisan

The correct answer is Kisan.

Key Points

• The SAMPADA (Scheme for Agro-Marine Processing Development of Agro-processing Clusters) scheme has been renamed to 'PMKSY'.

• PMKSY is the abbreviation of Pradhan Mantri Kisan Sampada Yojana.

• It is a Central Sector Scheme. Its aim is to supplement agriculture, modernize processing and decrease Agri-Waste.

• Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) is a scheme launched by Prime Minister Narendra Modi at the Cabinet Committee on Economic Affairs in July 2015.

• This scheme aims at ensuring assured irrigation and efficient use of water for cultivation.

Important PointsIt incorporates the following schemes:

• Accelerated Irrigation Benefit Programme (AIBP) of the Ministry of Water Resources, River Development & Ganga Rejuvenation (MoWR, RD&GR),

• Integrated Watershed Management Programme (IWMP) of the Department of Land Resources (DoLR), Ministry of Rural Development (MoRD) and

• On Farm Water Management (OFWM) component of the National Mission on Sustainable Agriculture (NMSA) of the Department of Agriculture and Cooperation (DAC).

Q93. Answer: (a) China

China is the second country in the world after France to construct a photovoltaic highway. Solar panels are used for its construction and in order to protect the panels they are provided with a thin sheet of transparent concrete on top of them. One of the advantage of this type of highway is that the electric vehicles (EVs) can be charged using wireless systems.

Q94. Answer: (a) 99

The correct answer is 99.

Key Points

• As per a report released by RBI in August 2017,99 percent of the demonetised currency returned to the Central

• \ Bank.

• It constitutes about Rs. 15.28 lakh crore.

• The cash which was not returned amounts to Rs. 16,000 crore i.e. 1.04% of the value of old notes.

Important PointsReserve Bank of India (RBI)

• The Reserve Bank of India (RBI) is India's apex central banking institution.

• Established: April 1, 1935, under RBI act 1934.

• It was formed on the recommendation of the Hilton Young Commission.

• Initial Paid-up capital was 5 crores.

• RBI was nationalized on 1 January 1949.

• The Central Office of the Reserve Bank was initially established in Calcutta but was permanently moved to Mumbai in 1937.

Q95. Answer: (b) Intelligence

The correct answer is Intelligence.

Key Points

• FIU stands for Financial Intelligence Unit of India.

• The FIU - IND was set by the Government of India in 2004 as the central national agency responsible for receiving, processing, analyzing and disseminating information relating to suspect financial transactions.

• It is an independent body, headed by Director, reporting to the Economic Intelligence Council (EIC) headed by the Finance Minister.

• For administrative purposes, FIU-IND is under the Department of Revenue, Ministry of Finance.

• FIU-IND is established as an administrative FIU i.e., as an independent government body that receives analyses and disseminates suspicious transactions to the appropriate law enforcement or investigation agency.

Q96. Answer: (d) 72

The correct answer is 72.

Key Points

Given that:

Current (I) = 0.3 A

Potential difference (V) = 240V

The power rating of the bulb (in watt) is

P= VI = 240*0.3 = 72 watt

Important Points

• The unit of power 'Watts' is named to honour James Watt, the inventor of the steam engine.

• A Watt is equal to one ampere under the pressure of one volt.

• The rate at which the work is being done in an electrical circuit is called electric power.

• Electric power is defined as the rate of the transfer of energy.

• The power consumed in an electrical circuit is said to be one watt if one-ampere current flows through the circuit.

• An ampere is a unit used to measure electric current.

Q97. Answer: (a) Initial velocity

The correct answer is Initial velocity

Key PointsCONCEPT:

• 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 in 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.

EXPLANATION:

• In the equation of motion v = u + at, 'u' represents the initial velocity of the body under consideration. So option 1 is correct.

• There is nothing to do with energy here (kinetic energy and potential energy).

Additional Information

• Kinetic energy (KE): The energy possessed by a body by virtue of its motion is called kinetic energy.

$KE = 1/2mv^2$

Where m = mass of the body and v = velocity of the body

• Potential energy (PE): The energy possessed by a body by virtue of its position or configuration is called potential energy.

PE = mgh

Where, m = mass of the body, g = acceleration due to gravity, and h = height of the body

Q98. Answer: (d) typhoon

The correct answer is a typhoon.

Key Points

• A cyclone is known by different names in different parts of the world.

• It is called a 'typhoon' in Japan and the Philippines.

• While they are called 'cyclones' in the Indian and South Pacific oceans.

• In the Atlantic Ocean, they are called 'hurricanes'.

Additional Information

Cyclone:

• A cyclone is a large air mass that rotates around a strong centre of low atmospheric pressure.

• Cyclones rotate clockwise in the Southern Hemisphere and anti-clockwise in the Northern Hemisphere.

• Cyclones are rapid inward air circulation around a low-pressure area.

• Factors like wind speed, wind direction, temperature and humidity contribute to the development of cyclones.

• Cyclone/Strom is termed by different names in different continents -

1. Cyclone is a chain of events that ends with the formation of a very low-pressure system with very high-speed winds revolving around it.

2. The centre of a cyclone is a calm area. It is called the eye of the storm. A large cyclone is a violently rotating mass of air in the atmosphere, 10 to 15 km high.

3. A cyclone is known by different names in different parts of the world. It is called a 'hurricane' on the American continent. In the Philippines and Japan, it is called a 'typhoon'.

Q99. Answer: (a) Only A

The correct answer is Only A.

Key Points

• Julio Granda won the 2017 World Senior Chess Championship. (Thus, statement A is correct.)

• Aryan Tari won the 2017 World Junior Chess Championship. He is from Norway. (Thus, statement B is wrong.)

• Florida, United States hosted the Golf 2017 Players Championship. (Thus, statement C is wrong.)

Additional InformationChess-

• The game of Chess originated in India.

• From India, the game spread to Persia.

• Chess is a two-player strategy board game played on a chessboard.

• The earliest precursor of modern chess is a game called chaturanga.

Golf-

• Golf in India was first played by Britishers.

• The golf game was introduced in Europe around the 15th century.

• The golf field is wide and full of green grass. This ground is called the 'Golf Course'.

• The capital of England is London, and it is the most populous city here.

• Since Golf is especially popular among the wealthier classes, it has not yet caught on with others due to the expenses involved in playing.

Q100. Answer: (c) Table Menu

The correct answer is Table Menu

Key Points

• We can create tables in Word.

• We can also alter the table i.e merge cells, delete rows/columns, split cells, split tables, etc.

• In order to delete columns or rows we can use the delete option under the Table Menu in Microsoft Word.

Important PointsMS word-

• MS Word is a word processor developed by Microsoft.

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- Charles Simonyi, a developer, and Richard Brodie, a software engineer, were the two creators of MS Word
- It was introduced in 1983
- MS Word for Mac was introduced by Microsoft as Word 1.0 in 1985
- The extension for any word file is ".doc or .docx."

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