SSC CHSL Previous Paper 30 (Held On: 17 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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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) megalomaniac
(b) megalomeniac
(c) megallomaniac
(d) megallomeniac

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.

A lever enabled you

A-controlled the burner flame

B-to raise or lower the wicks

C-and this is how you

(a) BAC
(b) ACB
(c) BCA
(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".

By then running water and electricity (had arrive), making the well and the lamp post redundant.

(a) had arriving
(b) had arrived
(c) arriving
(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".

This stove (had) a flat kerosene tank at the bottom.

(a) have
(b) have had
(c) has had
(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.

Revel in and make the most of something pleasing

(a) Abhor
(b) Bask
(c) Fret

(d) Edgy

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

Acutely distressing

(a) Palatable
(b) Harrowing
(c) Gratifying
(d) Suave

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

In cahoots with

(a) A marriage made in heaven.
(b) A group of criminals.
(c) With lot of determination.
(d) In an alliance or partnership with.

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

Back to the drawing board

(a) A creative person will always find a solution to any problem.
(b) An artist will express his feelings by drawing.
(c) It is better to work on a fanciful idea bound to fail than have no ideas at all.
(d) Used to indicate that an idea has been unsuccessful and that a new one must be devised.

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.

The _____ conversation-starter cultivated by years of ostentatious _____ society is a simple ‘how do you do?’ followed by a polite shaking of hands and an optional comment on the weather. But aside _____ the mental trauma this ritual causes to those unfortunate souls who suffer from clammy hands, it also doesn’t provide much incentive to go on. Fascinating as the weather can be from time _____ time, one can speak only so much about the _____ of the sun and express sympathy towards the depressions the Bay of Bengal faces.

Q9. much about the _____ of the sun

(a) brightness
(b) bright
(c) brightly
(d) brighter

Q10. from time _____ time, one

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

Q11. But aside _____ the mental trauma

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

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Q12. years of ostentatious _____ society is a simple

(a) humanity
(b) humanly
(c) humanely
(d) human

Q13. The _____ conversation-starter cultivated

(a) basic
(b) base
(c) basically
(d) basics

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) Acquaintance
(b) Acuainatance
(c) Acquaintence
(d) Akquaintance

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.

She said, “Let us wait for the seat”

(a) She proposed that they should wait for the seat.
(b) She proposed that they could wait for the seat.
(c) She proposed to wait for the seat.
(d) She proposed let us wait for seat.

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.

One can achieve reward by hard work.

(a) Reward could be achieved by hard work.
(b) Reward is needed for hard work.
(c) Reward is achieved by hard work.
(d) Reward can be achieved by hard work.

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

The invention of the turbine by

P: the beginning of jet transport

Q: Ohain in Germany in 1939 signalled

R: Frank Whittle in England and Hans von

(a) QRP
(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.

Wholesome

(a) Impure
(b) Healthy
(c) Pure
(d) Safe

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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.

Inundate

(a) Engulf
(b) Immerse
(c) Overrun
(d) Underwhelm

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

Accede

(a) Admit
(b) Submit
(c) Grown
(d) Consent

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

Hackneyed

(a) Tired
(b) Fresh
(c) Uncommon
(d) New

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.

He won't pay the rent _____ how many times his landlord berates him.

(a) seeing as
(b) however
(c) although
(d) no matter

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.

Anita _____ her work by the time he came.

(a) had done
(b) has done
(c) is done
(d) would done

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'.

Proteins are providers of energy in an emergency, (1)/ and are primarily used as building blocking (2)/ for growth and repair of many body tissues. (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'.

He cooked (A)/ dinner and (B)/ than turned the radio on. (C)/ No error (D)

(a) A
(b) B

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(c) C
(d) D

GENERAL INTELLIGENCE

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

Shout : Speak :: ? : ?

(a) Petrol : Fuel
(b) Rage : Anger
(c) Drown : Water
(d) Famous : People

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

46 : 48 :: 61 : ?

(a) 67
(b) 71
(c) 65
(d) 63

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

VOT : SLQ :: HRX : ?

(a) EMS
(b) KOC
(c) EOU
(d) RVH

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

(a) Car – Road
(b) Water – Ship
(c) Track – Train
(d) Sky – Aeroplane

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) 12 – 24
(b) 14 – 28
(c) 44 – 88
(d) 33 – 88

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

(a) LFZ
(b) PJC
(c) SMG
(d) XRL

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

1. Lighten 2. Liftoff 3. Lemonade 4. Leisure 5. Ladies

(a) 32451
(b) 21345
(c) 13245
(d) 54321

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

23, 24, 26, 27, 29, ?

(a) 31
(b) 30
(c) 33
(d) 32

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

PCM, REO, TGQ, VIS, ?

(a) XKU
(b) WLV
(c) XLV
(d) WKU

Q35. The ratio of the present ages of Reena and her husband is 4 : 5. 8 years from now, the ages of her husband and her son will be in the ratio 24 : 9. If the present age of Reena is 32 years, then what will be her son's present age (in years)?

(a) 12
(b) 15
(c) 10
(d) 8

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

Preparation

(a) Paper
(b) Ration
(c) Part
(d) People

Q37. In a certain code language, "PROP" is written as "67" and "RATE" is written as "46". How is "MOCK" written in that code language?

(a) 41
(b) 40
(c) 42
(d) 44

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

35 – 12 + 10 × 50 ÷ 14 = ?

(a) 31
(b) 6
(c) 27
(d) 15

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

16 ÷ 4 × 8 – 10 + 14 = 12

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

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Q40. If 19!3 = 32, 13!4 = 18 and 12!2 = 20, then find the value of 17!3 = ?

(a) 16
(b) 28
(c) 4
(d) 8

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

XZYXYXYXY, XYZXYXYXY, XYXZYXYXY, XYXYZXYXY, XYXYXZYXY, _____.

(a) ZXYXYXYXY
(b) XZYXYXYXY
(c) XYZXYXYXY
(d) XYXYXYZXY

Q42. Two navy ships start from the same port. Ship A travels 23 km West, then turns to its left and travels 19 km. Ship B travels 19 km West, then turns North and travels 5 km, then turns to its left and travels 4 km. Where is ship A with respect to ship B?

(a) 14 km South
(b) 24 km North
(c) 24 km South
(d) 14 km 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 scissors are knives

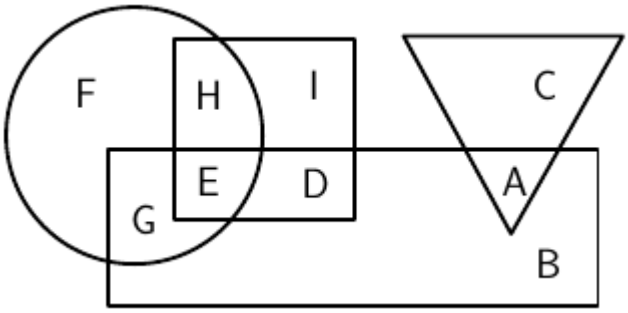
Statement II: Some blades are scissors

Conclusion I: Some knives are blades

Conclusion II: All blades are knives

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

Q44. In the following figure, rectangle represents Cinematographers, circle represents Lyricists, triangle represents Trekkers and square represents Joggers. Which set of letters represents Trekkers who are not Joggers?



(a) ID
(b) AD
(c) CI
(d) AC

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

HOT, GMQ, FKN, EIK, ?

(a) CHI
(b) CGH

(c) DGH
(d) DHI

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

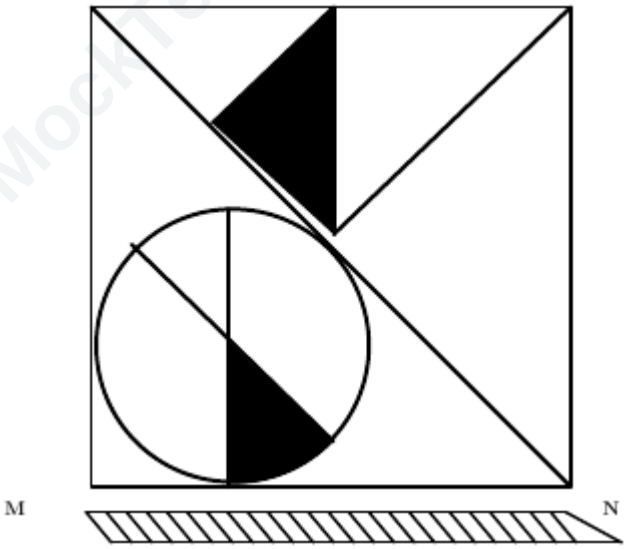
93, 100, 107, 114, ?, 128

(a) 120
(b) 121
(c) 123
(d) 122

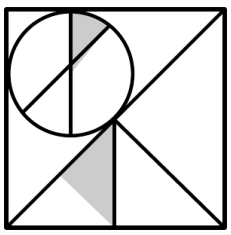
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (10, 20, 30)
(b) (12, 22, 32)
(c) (27, 37, 47)
(d) (19, 29, 49)

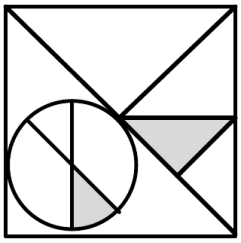
Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?



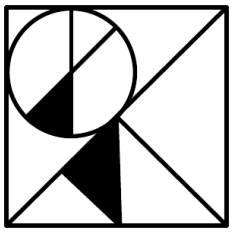
(a)



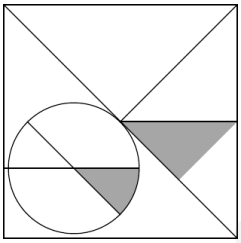
(b)



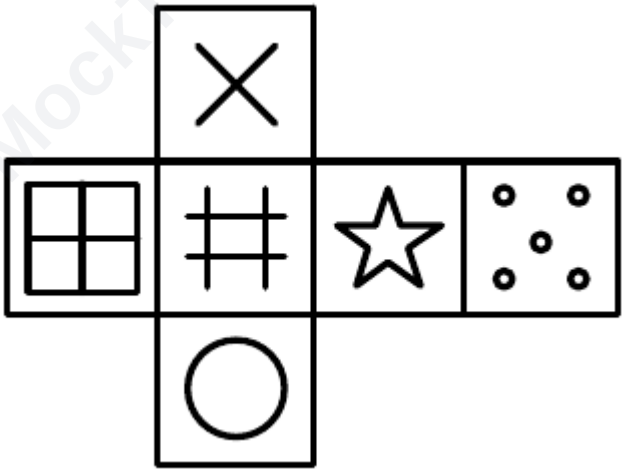
(c)



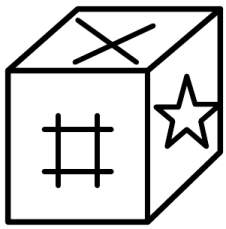
(d)



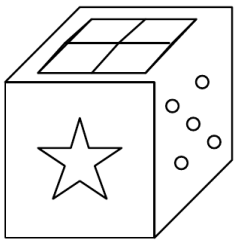
Q49. Which of the following cubes in the answer figure cannot be made based on the unfolded cube in the question figure?



(a)

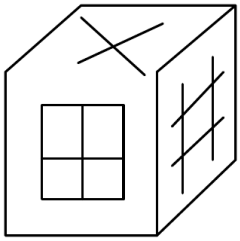


(b)

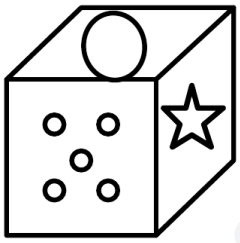


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(c)



(d)



Q50. A word is represented by only set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix–I are 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 'D' can be represented by 31, 43 etc and 'W' can be represented by 76, 57etc. Similarly, you have to identify the set for the word 'SKIP'.

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

(a) 41, 97, 23, 65
(b) 44, 86, 11, 56
(c) 21, 98, 31, 86
(d) 85, 13, 24, 56

QUANTITATIVE APTITUDE

Q51. In a company 2/3 of the workers are girls, 1/2 of the girls are married and 1/3 of the married girls live in hostel. If 3/4 of the boys are married and 2/3 of married boys live in hostel. Calculate the part of workers who don't live in hostel.

(a) 11/18
(b) 15/18
(c) 17/18
(d) 13/18

Q52. If a number 657423547X46 is divisible by 11, then find the value of X.

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

Q53. Determine the value of (x + y)/(x + 2y) when (2x + y)/(x + 4y) = 3

(a) 3/5
(b) 7/10
(c) 4/5
(d) 10/9

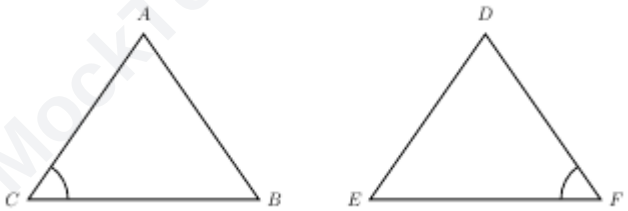
Q54. For what value of 'y', $x^2 + 1/12x + y^2$ is a perfect square?

(a) 1/24
(b) 1/12
(c) 1/6
(d) 1/3

Q55. Which of the following statement is CORRECT about the tangents?

(a) The tangents drawn at the end of diameter of a circle are parallel to each other.
(b) The line segment which joins the point of contact of two parallel tangents to the circle is the diameter of the circle.
(c) Tangents drawn from the external points subtends equal angle at the centre.
(d) All option are correct.

Q56. Which of the following option is CORRECT for SAS similarity criterion for the triangle ABC and DEF?



(a) angle A = angle D and AB/DE = AC/DF
(b) angle B = angle E and AB/DE = BC/EF
(c) angle C = angle F and AC/DF = BC/EF
(d) All option are correct

Q57. If price of the table is increased by 25%, then a person can buy 25 table less for Rs. 25000. What is the original price (in Rs) of the table?

(a) 225
(b) 250
(c) 200
(d) 167

Q58. A sum of Rs. 125 is divided among u, v and w in such a way that u gets Rs 10 more than v and v gets Rs. 5 more than w. What is the ratio of their shares?

(a) 12 : 10 : 9
(b) 10 : 8 : 7
(c) 13 : 10 : 7
(d) 5 : 4 : 3

Q59. In an alloy, lead and tin are in the ratio of 2 : 3. In the second alloy, the ratio of same elements is 3 : 4. If equal quantities of these two alloy are mixed to form a new alloy, then what will be the ratio of these two elements in the new alloy?

(a) 1 : 3
(b) 29 : 41
(c) 25 : 37
(d) 31 : 43

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Q60. Average age of 6 boys is 14 years. Average age of 11 girls is 12 years. What is the average age (in years) of all boys and girls?

(a) 12.7
(b) 14.6
(c) 19.3
(d) 8.5

Q61. Simple interest on a sum for 10 years is equal to 5% of the principal. In how many years interest will be equal to the principal?

(a) 100
(b) 150
(c) 200
(d) 250

Q62. The ratio of selling price to the cost price is 21 : 16. What is the profit percentage?

(a) 35.75
(b) 21.75
(c) 27.75
(d) 31.25

Q63. Dinesh purchases 10 dozens of apples at the rate of Rs. 180 per dozen. He sold each one of them at the rate of Rs. 19.5. What is the profit (in percentage) of Dinesh?

(a) 30
(b) 15
(c) 18
(d) 25

Q64. If $x = 4 + \sqrt{15}$, then what is the value of $[x^2 + (1/x^2)]$?

(a) 62
(b) 64
(c) 34
(d) 36

Q65. Some masons promised to do a work in 10 days but 8 of them were absent and the remaining did the work in 18 days. What was the original number of masons?

(a) 10
(b) 21
(c) 15
(d) 18

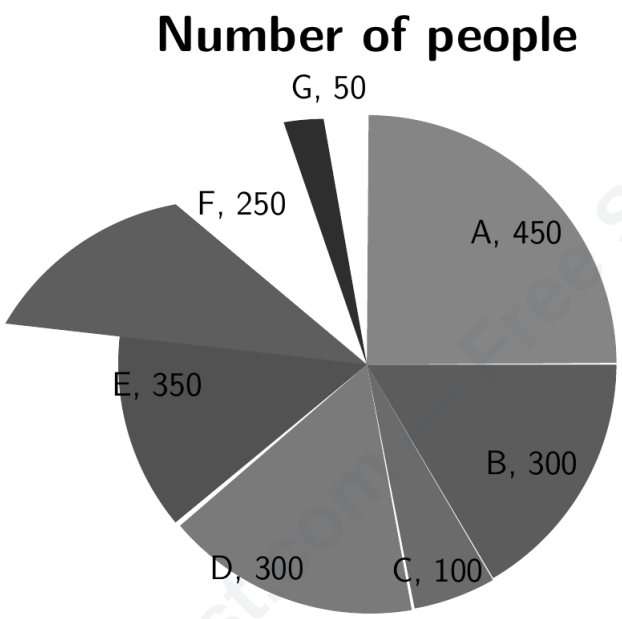
Q66. A boat goes 8 km upstream and 12 km downstream in 7 hours. It goes 9 km upstream and 18 km downstream in 9 hours. What is the speed (in km/h) of the boat in still water?

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

Directions

Direction: The pie chart shows the results of an online survey which asked people about their favourite movie. Study the diagram and answer the following questions.

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Q67. Which movie is the favourite of most people surveyed?

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

Q68. What is the total numbers of people who have responded to the survey?

(a) 1800
(b) 2100
(c) 2400
(d) 2000

Q69. The measure of the central angle of the sector representing number of people whose favourite movie is C is _____ degrees.

(a) 15
(b) 20
(c) 30
(d) 10

Q70. Respondents who say their favourite movie is D and those who say their favourite movie is B constitute what percent of the total respondents?

(a) 30
(b) 33.33
(c) 40
(d) 25

Q71. The perimeter and the length of one of the diagonals of a rhombus is 26 cm and 5 cm respectively. Find the length of its other diagonal (in cm).

(a) 6
(b) 12
(c) 24
(d) 18

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Q72. If the area of a semi-circle is 1925 cm², then find its radius (in cm).

(a) 70
(b) 31
(c) 62
(d) 35

Q73. The total surface area of a cube is 253.5 cm². Find its side (in cm).

(a) 7.5
(b) 5.5
(c) 6.5
(d) 8.5

Q74. ΔDEF is right angled at E. If mangle F = 30^0, then find the value of (sin D - 1/3).

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

Q75. ΔDEF is right angled at E. If cosec D = 25/24, then what is the value of cos F?

(a) 25/7
(b) 24/7
(c) 24/25
(d) 7/24

GENERAL AWARENESS

Q76. Generally unemployment in a developing country takes place because of _____.

(a) Lack of complementary factors of production
(b) Seasonal factors
(c) Lack of effective demand
(d) Switch over from one job to another

Q77. The Ex-officio Secretary of NDC is _____.

(a) Vice-Chairman of Planning Commission
(b) General Secretary of Lok Sabha
(c) Secretary of Finance Ministry
(d) Secretary of Planning Commission

Q78. Who of the following founded the Vikramashila University?

(a) Devapala I
(b) Dharmpala
(c) Gopala
(d) Devapala II

Q79. Which Governor General of India used to write poetry with the name of "Owen Meredith"?

(a) Lord Dalhousie
(b) Lord Ripon
(c) Lord Lytton
(d) Lord Canning

Q80. Which of the following pairs is NOT correctly matched?

(a) Etna : Italy
(b) Fujiyama : Japan
(c) Popa : Myanmar
(d) Krakatau : Malaysia

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Q81. The highest mountain peak of Chhotanagpur Plateau is _____.

(a) Dhoopgarh
(b) Pachmarhi
(c) Parasnath
(d) Mahabaleshwar

Q82. Begum Akhtar is associated to which art form?

(a) Dance
(b) Painting
(c) Music
(d) Folk Art

Q83. Which of the following countries has built the world's biggest air purifier, a 328 feet high tower, to combat air pollution?

(a) Germany
(b) India
(c) Australia
(d) China

Q84. Who among the following writers won the 2017 Sahitya Academy Award for Hindi literature?

(a) Niranjan Mishra
(b) Ramesh Kuntal Megh
(c) Uday Narayana Singh
(d) Shrikant Deshmukh

Q85. Which is the largest City of Nepal?

(a) Hetauda
(b) Pokhara
(c) Biratnagar
(d) Kathmandu

Q86. Elements having same atomic numbers but a different mass number are called _____.

(a) isotones
(b) isotopes
(c) isobar
(d) None of the above

Q87. Washing soda is used _____.

I. for removing permanent hardness of water
II. for disinfecting drinking water
III. as a cleaning agent for the domestic purpose

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

Q88. What are the minimum qualifications of a person to become a member of Lok Sabha?

I. Must be a citizen of India.
II. Must not be less than 25 years of age.
III. Must hold an office of profit under Union Government.

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

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Q89. The India Parliament should meet at least _____.

(a) Once a year
(b) Twice a year
(c) Thrice a year
(d) Four times in a year

Q90. Which is the longest part of alimentary canal?

(a) Oesophagus
(b) Small intestine
(c) Large intestine
(d) Buccal cavity

Q91. Organs having different structures and components but performing similar functions are called _____.

(a) Analogous organs
(b) Homologous organs
(c) Heterogeneous organs
(d) Homogenous organs

Q92. In August 2017, Environment Ministry of India launched 'GajYatra' to protect _____.

(a) Tigers
(b) Elephants
(c) Lions
(d) Rhino

Q93. Which country has made the world's largest amphibious aircraft named AG600?

(a) United States of America
(b) Russia
(c) China
(d) Saudi Arabia

Q94. In August 2017, which of the following launched world's first futures contracts in 'diamonds'?

(a) Indian Commodity Exchange (ICEX)
(b) Multi Commodity Exchange (MCEX)
(c) National Association of Securities Dealers Automated Quotations (NASDAQ)
(d) None of these

Q95. What is the resistance (in Ω) of an electrical component if a current of 0.2 A passes through it on the application of 8 V of a potential difference across it?

(a) 40
(b) 1.6
(c) 80
(d) 3.2

Q96. The value of acceleration due to gravity (g) _____.

(a) is greater at the poles than at the equator
(b) is lesser at the poles than at the equator
(c) is greater at the North pole than at the South pole
(d) is greater at the South pole than at the North pole

Q97. Seismic waves are recorded by an instrument called the _____.

(a) Seismograph
(b) Odograph
(c) Isograph
(d) Lithograph

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Q98. Which of the statements given below are correct?

A) In 2017, Dani Pedrosa raced in MotoGP for Yamaha.

B) Alexander Zverev won the Tennis 2017 Miami Open Men's Singles.

C) Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.

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

Q99. Computer networks constituting the internet are connected by telephones, underwater cables and _____

(a) e-mail
(b) e-books
(c) Public telephone booths
(d) Satellites

Q100. On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill seeks to permit construction in 'Prohibited areas' for _____.

(a) Private Purposes
(b) Public Purposes
(c) Both public and private Purposes
(d) None of these

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) megalomaniac

Here the correct answer is Megalomaniac.

Key Points:-

• 'Megalomania' comes from the Greek 'megas'(great) and 'mania'(madness).
• It is a madness of greatness, but not a great kind of madness!
• Let's look at the meaning and correct spelling of the given word:-
• Megalomaniac*(noun)* -a person who has an obsessive desire for power.
• For Example -He has been accused of being a megalomaniac.

Therefore, the correct spelling of the given word is Megalomaniac.

Q2. Answer: (c) BCA

Here the correct answer is BCA.

Key Points:-

• 'Enable' means give the authority (to).

• For Example - The above-named acts enable the Board of Trade to take all the necessary steps to ensure that the safety of passenger trains is sufficiently guarded.

• Something enables you to do something.

• 'To' follows naturally.

• Thus, B has to be first. Rule out option 2 and option 4.

• A sentence can't end with how you.

• Thus, C cannot be the last sentence.

• Therefore, it is clear from the above conclusions that the correct sequence is BCA.

Correct Sentence - A lever enabled you to raise or lower the wicks and this is how you controlled the burner flame.

Q3. Answer: (b) had arrived

Here the correct answer is Had arrived.

Key Points:-

• In the above given sentence, 'had arrived' will be used.

• It is so because the arrival happened before the well and the lamp became redundant.

• Whenever two actions occur in the past, one after the other, then the first action is expressed in past perfect tense and the second action is expressed in Simple past tense.

• For Examples:-

• The patient had died before the doctor came.

• He came after she had gone.

• Past perfect tense is used to express an action which has been completed a long time ago in the past.

• Structure of past perfect tense - Subject + had + V3 + Object.

Therefore, the correct sentence is By then running water and electricity had arrived, making the well and the lamp post redundant.

Q4. Answer: (d) no improvement

Here the correct answer is No improvement.

Key Points

• The original sentence, "This stove had a flat kerosene tank at the bottom," is in the past tense and uses the verb "had" correctly.

• The use of "had" indicates that the stove possessed a flat kerosene tank in the past.

• Let's examine the options:

• "have": This option changes the tense from past to present. However, the sentence is describing a specific stove in the past, so the present tense is not appropriate.

• "have had": This option uses a present perfect tense, which indicates an action that started in the past and continues into the present. However, the sentence does not suggest an ongoing action; it simply describes the stove's feature in the past. Therefore, the present perfect tense is not suitable here.

• "has had": This option uses a present perfect tense with the third-person singular subject "has." Similar to option 2, it suggests an ongoing action that does not align with the intended meaning of the sentence. The sentence refers to a specific stove in the past, so the present perfect tense is not appropriate.

• "no improvement": This option states that no improvement is necessary, indicating that the original verb "had" is correct. Since the sentence correctly uses the past tense to describe the stove's feature in the past, no change is required.

• Therefore, the correct answer is "no improvement" (option 4) as the original sentence is already grammatically correct.

Therefore, the correct sentence is This stove had a flat kerosene tank at the bottom.

Q5. Answer: (b) Bask

Here the correct answer is Bask.

Key Points:-

• Let's look at the meaning of the correct answer:-

• Bask*(verb) -* revel in and make the most of (something pleasing).

• For Example - He went on basking in the glory of his first book.

• Synonyms - revel, luxuriate, delight, wallow

• Antonyms - unlike, disapprove, dislike, different

• Let's look at the meaning of the other options:-

WORD	MEANING

Abhor*(verb)*	regard with disgust and hatred.
Fret*(verb)*	be constantly or visibly anxious.
Edgy*(adjective)*	tense, nervous, or irritable.

Therefore, the correct one word for the given descriptive sentence is Bask.

Q6. Answer: (b) Harrowing

Here the correct answer is Harrowing.

Key Points:-

• Let's look at the meaning of the correct answer:-

• Harrowing*(adjective)* - acutely distressing.

• For Example - It was a harrowing film about racism and violence.

• Let's look at the meaning of the other options:-

WORD	MEANING
Palatable*(adjective)*	(of food or drink) pleasant to taste; also, satisfactory.
Gratifying*(adjective)*	satisfying.
Suave*(adjective)*	(especially of a man) charming, confident, and elegant.

Therefore, the correct one word for the given words/sentence is Harrowing.

Q7. Answer: (d) In an alliance or partnership with.

Here the correct answer is In an alliance or partnership with.

Key Points

• Let's look at the meaning of the idiom/phrase:-

• 'In cahoots with' - In an alliance or partnership with OR working together or making plans together in secret.

• For Example - I think those two are in cahoots.

• Therefore, the correct meaning of the given idiom/phrase is In an alliance or partnership with.

Q8. Answer: (d) Used to indicate that an idea has been unsuccessful and that a new one must be devised.

Here the correct answer is Used to indicate that an idea has been unsuccessful and that a new one must be devised.

Key Points:-

• Let's look at the meaning of the correct answer:-

• Back to the drawing board - to start over

• For Example - The company went back to the drawing board to make a better product.

Therefore, the correct meaning of the given idiom/phrase is Used to indicate that an idea has been unsuccessful and that a new one must be devised.

Q9. Answer: (a) brightness

Here the correct answer is Brightness.

Key Points:-

• In the above given blank, 'brightness' will be used.

• It is so because the sentence is talking about a quality or state of the sun.

• Therefore, a noun will be used in the blank.

• Brightness*(noun) -* the quality or state of giving out or reflecting light.

• For Example - We can change the brightness of the bulb.

Therefore, the correct word for the blank is Brightness.

Q10. Answer: (a) to

Here the correct answer is To.

Key Points:-

• In the above given blank, 'to' will be used.

• It is so because 'Time to time' is a phrase meaning sometimes, but not regularly.

• For Example - I still think of her from time to time.

• In the sentence, the speaker is talking about the weather which can be fascinating sometimes, but not regularly.
Therefore, the correct word for the blank is To.

Q11. Answer: (a) from

Here the correct answer is From.
Key Points:-
• In the above given blank, 'from' will be used.
• The sentence aims to say that besides the mental trauma, the ritual causes other things too.
• 'Aside from' is a phrase which means apart from; besides.
• For Example -The room was empty apart from one man seated beside the fire.
Therefore, the correct word for the blank is From.

Q12. Answer: (d) human

Here the correct answer is Human.
Key Points:-
• In the above given blank, 'human' will be used.
• Ostentatious*(adjective) -* characterized by pretentious or showy display; designed to impress.
• For Example - He prepared a simple design that is glamorous without being ostentatious.
• Clearly, the blank must also contain an adjective so that both of these can describe society.
• Human*(adjective) -* relating to or characteristic of humankind.
• For Example - The human body is made up of 206 bones.
• The other options i.e. humanity, humanly and humanely are noun, adjective and adjective respectively.
• Therefore, 'human' will be used which is both a noun and an adjective.
Therefore, the correct word for the blank is Human.

Q13. Answer: (a) basic

Here the correct answer is Basic.
Key Points:-
• In the above given blank, 'basic' will be used.
• It is so because the blank must be filled with an adjective which is supposed to describe conversation starter.
• In the options given, only basic and base are adjectives.
• The other two i.e. basically and basics are adverb and noun respectively.
• 'Basic' will be used because it is an adjective meaning
• forming an essential foundation or starting point; fundamental.
• For Example - Certain basic rules must be obeyed.
• 'Base' cannot be used because it means without moral principles; ignoble.
• For Example - The electorate's baser instincts of greed and selfishness.
• Thus, 'basic' fits in the context of the sentence.
Therefore, the correct word for the blank will be Basic.

Q14. Answer: (a) Acquaintance

Here the correct answer is Acquaintance.
Key Points:-
• The root of acquaintance is the Old French word 'acointier', a verb meaning 'make known'.
• Being the acquaintance of a person or topic means that you know something about it.
• Let's look at the correct spelling and meaning of the given word:-
• Acquaintance*(noun) -*knowledge or experience of something OR a person one knows slightly, but who is not a close friend.
• For Examples:-
• The pupils had little acquaintance with the language.
• A wide circle of friends and acquaintances accompanied him.
Therefore, the correct spelling of the given word is Acquaintance.

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Q15. Answer: (a) She proposed that they should wait for the seat.

Here the correct answer is She proposed that they should wait for the seat.

Key Points:-

• 'Let us' shows a suggestion.

• In transition of speech, we use should to express suggestion.

• Let's look at the steps for changing the sentence from direct to indirect speech:

• The reporting verb 'said' is changed to 'proposed' because 'In Exclamatory sentences that express (grief, sorrow, happiness, applaud), interjections are removed and the sentence is changed to an assertive sentence'.

• The pronoun 'us' is changed to 'they' as the first person changes according to subject.

• The conjunction 'that' is used in place of the comma and the inverted comma are removed.

Therefore, the correct indirect speech will be She proposed that they should wait for the seat.

Additional Information

The following table will enable us to know how tense changes in indirect speech:-

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

Q16. Answer: (d) Reward can be achieved by hard work.

Here the correct sentence is Reward can be achieved by hard work.

Key Points:-

• Modals such as can, should, might, could, may, will, shall, ought to etc. are preserved during change of voice.

• Whenever a sentence in active voice contains a modal verb, it is changed according to the following structure:-

• Active Voice - Modal verb + V1

• Passive Voice - Modal verb + be + V3

• For Example:-

• Active Voice - I may solve this sum.

• Passive Voice - This sum may be solved by me.

• Simple present (achieve) changes to simple past (achieved).

• The subject and object positions are interchanged.

• Since the subject of the active sentence is 'one' i.e. an indefinite subject, it can be eliminated from the passive sentence.

Therefore, the correct passive voice will be Reward can be achieved by hard work.

Additional Information

• When we convert active voice to passive voice, three things need to be kept in mind:-

• Change object into subject.

• Change subject into object.

• Always use third form of verb in passive voice.

• Use 'by' before the new object.

Q17. Answer: (b) RQP

Here the correct answer is RQP.

Key Points:-

• 'By' at the end of the given starting sentence suggests that there will be the name of the scientist who invented turbine as the first sentence.

• The second sentence will be Q because the first sentence R contains incomplete name of the second scientist.

Therefore, the correct order will be RQP.

Q18. Answer: (a) Impure

Here the correct answer is Impure.

Key Points:-

• Let's look at the meaning of the given word:-

• Wholesome*(adjective) -* conducive to or suggestive of good health and physical well-being.

• For Example - The food is plentiful and very wholesome.

• Let's look at the meaning of the correct answer:-

• Impure*(adjective) -* mixed with foreign matter; adulterated.

• For Example - It was an impure form of gold.

• Let's look at the meaning of the other options:-

WORD	MEANING
Healthy*(adjective)*	in a good physical or mental condition; in good health.
Pure*(adjective)*	not mixed or adulterated with any other substance or material.
Safe*(adjective)*	protected from or not exposed to danger or risk; not likely to be harmed or lost.

Therefore, the correct antonym of the given word is Impure.

Additional Information

Let's look at the synonym and antonyms of the given word and that of the correct answer:-

WORD	SYNONYMS	ANTONYMS
Wholesome	healthy, health-giving, healthful, good	unhealthy, unhealthful, insalubrious, insanitary.
Impure	adulterated, combined, mixed, blended.	pure, chaste.

Q19. Answer: (d) Underwhelm

Here the correct answer is Underwhelm.

Key Points:-

• Let's look at the meaning of the given word:-

• Inundate*(verb)* - overwhelm (someone) with things or people to be dealt with.

• For Example - We've been inundated with complaints from listeners.

• Let's look at the meaning of the correct answer:-

• Underwhelm*(verb)* - fail to impress or make a positive impact on (someone); disappoint.

• For Example - Investors seemed underwhelmed by the company's turnaround plan.

• Let's look at the meaning of the other options:-

WORD	MEANING
Immerse*(verb)*	dip in a fluid or water.
Overrun*(verb)*	spread over or occupy (a place) in large numbers.
Engulf*(verb)*	(of a natural force) sweep over (something) so as to surround or cover it completely; submerge; flood.

Therefore, the correct antonym of the given word is Underwhelm.

Additional Information

Let's look at the synonym and antonym of the given word and answer:-

WORD	SYNONYMS	ANTONYMS
Inundate*(verb)*	overwhelm, overpower, overrun, overburden.	drain, reclaim, dry, desiccate.
Underwhelm*(verb)*	baffle, balk, dismay, displease.	overwhelming

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Q20. Answer: (d) Consent

Here the correct answer is Consent.

Key Points:-

• Let's look at the meaning of the given word:-

• Accede*(verb) -* agree to a demand, request, or treaty.

• For Example - The authorities did not accede to the strikers' demands.

• Let's look at the meaning of the correct answer:-

• Consent*(verb)* - permission for something to happen or agreement to do something.

• For Example - No change may be made without the consent of all the partners.

• Let's look at the meaning of the other options:-

WORD	MEANING
Admit*(verb)*	confess to be true or to be the case.
Submit*(verb)*	accept or yield to a superior force or to the authority or will of another person.
Grown*(verb)*	(of a living thing) undergo natural development by increasing in size and changing physically.

Therefore, the correct synonym of the given word is Consent.

Additional Information

Let's look at the synonyms and antonyms of the given word and the correct answer:-

WORD	SYNONYMS	ANTONYMS
Accede	accept, endorse, allow, recognize.	refuse, deny
Consent	agreement, assent, concurrence, accord	discord, dissent

Q21. Answer: (a) Tired

Here the correct answer is Tired.

Key Points:-

• Let's look at the meaning of the given word:-

• Hackneyed*(adjective) -* (of a phrase or idea) having been overused; unoriginal and trite.

• For Example - Some hackneyed situations come across as fresh and funny.

• Let's look at the meaning of the correct answer:-

• Tired(adjective) - in need of sleep or rest; weary.

• For Example - Fisher rubbed his tired eyes.

• Let's look at the meaning of the other options:-

WORD	MEANING
Fresh*(adjective)*	not previously known or used; new or different.
Uncommon*(adjective)*	out of the ordinary; unusual.
New*(adjective)*	produced, introduced, or discovered recently or now for the first time; not existing before.

Therefore, the correct synonym of the given word is Tired.

Additional Information

Let's look at the synonyms and antonyms of the given word and the correct answer:-

WORD	SYNONYMS	ANTONYMS
Hackneyed	overused, overdone, worn out, overworked	original, fresh
Tired	weary, exhausted, fatigued, over-tired	energetic, fresh

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Q22. Answer: (d) no matter

Here the correct answer is No matter.

Key Points:-

• In the above given sentence, 'no matter' will be used.

• It is so because the person doesn't care how many times his landlord berates him, he is not going to pay the rent.

• No matter is a phrase meaning regardless of; irrespective of.

• For Example - No matter what the excuse, you must not be late.

• Therefore, 'no matter' will be apt for the given sentence.

Thus, the correct sentence is He won't pay the rent no matter how many times his landlord berates him.

Q23. Answer: (a) had done

The solution is in Hindi. Read it online.

Q24. Answer: (b) 2

Here the correct answer is 2.

Key Points:-

• In the above given sentence, the error is in part 2.

• It is so because in place of 'blocking', there should be a noun which is described by building.

• 'Blocking' is a verb which has been wrongly used in place of blocks.

• Therefore, 'blocking' will be replaced by 'blocks'.

Thus, the correct sentence is Proteins are providers of energy in an emergency, and are primarily used as building blocks for growth and repair of many body tissues.

Q25. Answer: (c) C

Here the correct answer is C.

Key Points:-

• In the above given sentence, the error is in part C.

• It is so because 'than' has been wrongly used in place of 'then'.

• 'Than' is used for comparison (more than; faster than, etc.)

• For Example - She is younger than I am.

• 'Then' is used to represent time. In the given context: afterwards.

• For Example - She said something and then rode ahead.

• Therefore, 'than' will be replaced by 'then'.

Thus, the correct sentence is He cooked dinner and then turned the radio on.

Q26. Answer: (b) Rage : Anger

Just as Shout is of higher intensity than speak, rage is of higher intensity than anger.

Hence, answer is option Rage : Anger.

Q27. Answer: (d) 63

The pattern followed here is:

46 + 2 = 48

Same pattern will be followed for 61 : ?

61 + 2 = 63

Hence, answer is 63.

Q28. Answer: (c) EOU

The pattern followed here is:

V – 3 = S

O – 3 = L

T – 3 = Q

The same pattern will be followed for HRX : ?

H – 3 = E

R – 3 = O

X – 3 = U

Hence, the correct answer is EOU.

Q29. Answer: (a) Car – Road

Car runs on road. (written in reverse order)

Ship sails in water.

Train runs on track.

Aeroplane runs in sky.

Hence, Car – Road is the odd pair.

Hence, answer is Car – Road.

Q30. Answer: (d) 33 – 88

In all pairs except 1, second number is double of the first number.

Hence, answer is 33 – 88.

Q31. Answer: (b) PJC

L – 6 = F; F – 6 = Z

P – 6 = J; J – 7 = C

S – 6 = M; M – 6 = G

X – 6 = R; R – 6 = L

Hence, answer is PJC.

Q32. Answer: (d) 54321

The dictionary order arrangement would be:

5. Ladies

4. Leisure

3. Lemonade

2.Liftoff

1. Lighten

Hence, the correct dictionary order is ‘54321’.

Q33. Answer: (b) 30

The pattern followed here is:

23 + 1 = 24

24 + 2 = 26

26 + 1 = 27

27 + 2 = 29

Same pattern will be followed for missing number

29 + 1 = 30

Hence, answer is 30.

Q34. Answer: (a) XKU

The pattern followed here is:

P + 2 = R; R + 2 = T; T + 2 = V

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

M + 2 = O; O + 2 = Q; Q + 2 = S

Same pattern will be followed to find missing term:

V + 2 = X

I + 2 = K

S + 2 = U

Hence, answer is XKU.

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Q35. Answer: (c) 10

Let, the present age of Reena = 4x

The present age of her husband = 5x

After 8 years,

Age of her husband = 24y

Age of her son = 9y

Present age of Reena = 32 years

4x = 32 years

=> x = 8

Present age of her husband = 5x = 5 × 8 = 40 years

After 8 years, age of her husband = 48 years

48 = 24y

=> y = 2

After 8 years, age of her son = 9y = 9 × 2 = 18

Present age of her son = 18 – 8 = 10

Hence, the correct answer is 10 years.

Q36. Answer: (d) People

1) Paper → Preparation → can be formed.

2) Ration → Preparation → can be formed.

3) Part → Preparation → can be formed.

4) People → Preparation → cannot be formed as there is no letter 'l'.

Hence, 'People' cannot be formed.

Q37. Answer: (d) 44

The pattern followed here is:

P + R + O + P = 16 + 18 + 15 + 16 = 65 + 2 = 67

R + A + T + E = 18 + 1 + 20 + 5 = 44 + 2 = 46

Same pattern will be followed for "MOCK"

M + O + C + K = 13 + 15 + 3 + 11 = 42 + 2 = 44

Hence, answer is 44.

Q38. Answer: (b) 6

Given equation => 35 – 12 + 10 × 50 ÷ 14 = ?

Symbol	•	–	×	÷
Code	÷	×	–	•

After Interchange

=> 35 × 12 ÷ 10 – 50 + 14

=> 35 × 1.2 – 50 + 14

=> 42 – 50 + 14

=> 42 + 14 – 50

=> 56 – 50

=> 6

Hence, correct answer is 6.

Q39. Answer: (b) ÷ and ×

1) × and –

16 ÷ 4 – 8 × 10 + 14

= 4 – 80 + 14

= 18 – 80

= 62 ≠ 12

2) ÷ and ×

16 × 4 ÷ 8 – 10 + 14
= 16 × 0.5 – 10 + 14
= 8 – 10 + 14
= 12
3) ÷ and –
16 – 4 × 8 ÷ 10 + 14
= 16 – 3.2 + 14
= 26. 8 ≠ 12
4) – and +
16 ÷ 4 × 8 + 10 – 14
= 4 × 8 + 10 – 14
= 42 – 4
= 38 ≠ 12
Hence, by interchanging ÷ and ×, we get the correct answer.
Hence, the correct answer is option 2.

Q40. Answer: (b) 28

The pattern followed here is
19 – 3 = 16 × 2 = 32
13 – 4 = 9 × 2 = 18
12 – 2 = 10 × 2 = 20
Same pattern will be followed for 17!3 = ?
17 – 3 = 14 × 2 = 28
Hence, answer is 28.

Q41. Answer: (d) XYXYXYZXY

The logic followed here is
Here, Z is moving 1 step forward.
Thus, next term would be XYXYXYZXY.

Q42. Answer: (c) 24 km South

Ship A is 24 Km south with respect to ship B.

Q43. Answer: (a) Only conclusion I follows

Conclusion I: Some knives are blades → True (as all scissors are knives and some scissors are blades)
Conclusion II: All blades are knives → False (it is possible but not definite)
Hence, answer is Only conclusion I follows.

Q44. Answer: (d) AC

Here, AC represents Trekkers who are not Joggers.
Hence, the correct answer is AC.

Q45. Answer: (c) DGH

The pattern followed here is:
H – 1 = G; G – 1 = F; F –1 = E
O – 2 = M; M –21 = K; K – 2 = I
T – 3 = Q; Q – 3 = N; N – 3 = K
Same pattern will be followed to find the missing term:
E – 1 = D
I – 2 = G
K – 3 = H.
Hence, answer is DGH

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Q46. Answer: (b) 121

The pattern followed here is :

93 + 7 = 100

100 + 7 = 107

107 + 7 = 114

Same pattern will be followed to find the missing term

114 + 7 = 121

Hence, the missing term is 121.

Q47. Answer: (d) (19, 29, 49)

In every group except group 4, there is difference of 10 in each number.

Hence, the odd pair is (19, 29. 49).

Q48. Answer: (a) [figure]

Hence, answer is option 1.

Q49. Answer: (b) [figure]

Components of option 2 can't be adjacent to each other as they are opposite to each other.

Hence, answer is option 2.

Q50. Answer: (d) 85, 13, 24, 56

1) 41, 97, 23, 65 → K, X, C, O

2) 44, 86, 11, 56 → J, V, H, P

3) 21, 98, 31, 86 → C, Z, D, V

4) 85, 13, 24, 56 → S, K, I, P

Hence, 85, 13, 24, 56 is set of number that represent word "SKIP".

Q51. Answer: (d) 13/18

Let total number of people be x

Workers that are girls = 2x/3

Married girls = (1/2) × (2x/3) = x/3

Married girls who live in hostel = (1/3) × (x/3) = x/9

Girls who doesn't live in hostel = (2x/3) - (x/9) = 5x/9

Workers that are boys = x - (2x/3) = x/3

Married boys = (3/4) × (x/3) = x/4

Married boys who lives in hostel = (2/3) × (x/4) = x/6

Boys who doesn't live in hostel = (x/3) - (x/6) = x/6

Workers who don't live in hostel = (5x/9) + (x/6) = 13x/18

Therefore Part of workers who don't live in hostel = 13/18

Q52. Answer: (b) 9

Divisibility law of 11 => The difference of the alternating sum of digits of the number must be either 0 or a multiple of 11 (e.g. 2343 is divisible by 11 because 2 - 3 + 4 - 3 = 0).

According to divisibility rule of 11, 65423547X46 is divisible by 11.

If 6 - 5 + 7 - 4 + 2 - 3 + 5 - 4 + 7 - X + 4 - 6 = 9 - X is divisible by 11

So, X = 9

Q53. Answer: (d) 10/9

(2x + y)/(x + 4y) = 3

=> 2x + y = 3x + 12y

=> -11y = x

Therefore (x + y)/(x + 2y) = (- 11y + y)/(- 11y + 2y) = (- 10y)/(- 9y) = 10/9

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Q54. Answer: (a) 1/24

Formula used:

(a + b)2 = a2 + 2ab + b2

Calculation:

$x^2 + 1/12x + y^2$

=> $x^2 + 2(1/24)x + y^2$

If we take y = 1/24, we get

=> $x^2 + 2(1/24)x + (1/24)^2$

=> $(x + 1/24)^2$

Therefore For $x^2 + 1/12x + y^2$ to be perfect square y = 1/24.

Alternate MethodEquation $x^2 + 1/12x + y^2$ represents the quadratic equation.

Compare this from $ax^2 + bx + c = 0$

=> a = 1, b = 1/24, $c = y^2$

For perfect square, discriminent should be zero.

=> $D = b^2 - 4ac = 0$

=> $(1/12)^2 - 4. 1. y^2$

=> $y^2 = (1/24)^2$

Therefore y = 1/24

Q55. Answer: (d) All option are correct.

Calculation:

Statement (1) and (2) are the same statements told in a different manner so both of them are true

Now, the two triangles formed by tangents, radius and the line joining the external point to the centre are congruent by SAS rule as,

1. Radius is equal

2. 90° angle as tangent is perpendicular to radius at the point of contact

3. Length of two tangents drawn from an external point to a circle are equal

So, by Corresponding parts of concurrent triangle rule statement (3) is also true

Therefore All option are correct

Q56. Answer: (d) All option are correct

Concept used:

If any two sides and the angle included between the sides of one triangle are equivalent to the corresponding two sides and the angle between the sides of the second triangle, then the two triangles are said to be similar by SAS rule.

Calculation:

Now, the following conditions will give that both the triangles are similar.

=> angle A = angle D and AB/DE = AC/DF

=> angle B = angle E and AB/DE = BC/EF

=> angle C = angle F and AC/DF = BC/EF

Therefore The correct option is 4.

Q57. Answer: (c) 200

Calculation:

Let the price of one Table be Rs. x

Table bought for Rs.25000 = 25000/x

New price = x + 25% of x = x + 0.25x = 1.25x

Tables bought for Rs.25000 = 25000/1.25x = 20000/x

According to the question,

=> (25000/x) - (20000/x) = 25

=> 25000 - 20000 = 25x

=> 25x = 5000

=> x = 200

Therefore The correct answer is Rs.200.

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Shortcut TrickConcept used:
If the price is constant then,
Product used prop. to (1/price change)
Calculation:

Price change	4	5
Product used	5	4

Now,
=> (5 - 4) = 1 unit = 25 table
=> 5 unit = 125 tables
So the price of one table = 25000/125 = Rs.200
Therefore The correct answer is Rs.200.

Q58. Answer: (b) 10 : 8 : 7

Given:
Sum to be divided among u, v and w = Rs.125.
=> u = v + 10
=> v = w + 5
Calculation:
According to the question:
=> u = v + 10 ----(1)
=> v = w + 5
=> w = v - 5 ----(2)
Also,
=> u + v + w = 125
=> (v + 10) + v + (v - 5) = 125
=> 3v = 120
=> v = 40
By equation (1),
=> u = 40 + 10 = 50
By equation (2),
=> w = 40 - 5 = 35
Required ratio = u : v : w = 50 : 40 : 35 = 10 : 8 : 7
Therefore The correct answer is 10 : 8 : 7.

Q59. Answer: (b) 29 : 41

Given:
In the first alloy
Lead : Tin = 2 : 3
In the second alloy
Lead : Tin = 3 : 4
Calculation:
Let ‘x’ quantity of each of the two alloys be mixed
Quantity of lead in the new alloy = (2/5)x + (3/7)x = 29x/35
Quantity of tin in the new alloy = (3/5)x + (4/7)x = 41x/35
Required ratio = (29x/35) : (41x/35) = 29 : 41
Therefore The correct answer is 29 : 41.

Q60. Answer: (a) 12.7

Given:
Average of 6 boys = 14 years.
Average of 11 girls = 12 years
Calculation:

Average of 6 boys = 14
Sum of ages of 6 boys = 14 × 6 = 84
Now,
Average of 11 girls = 12
Sum of age of 11 girls = 12 × 11 = 132
Now,
Sum of the age of all girls and boys together = 84 + 132 = 216
Average of all boys and girls = 216/17 = 12.7
Therefore The correct answer is 12.7.

Q61. Answer: (c) 200

Given:
Simple interest on a sum for 10 years is equal to 5% of the principal.
Formula used:
Simple interest = (Principle × time × Rate)/100
Calculation:
Let the principle be Rs. P
According to the question:
=> (Principle × time × Rate)/100 = 5% of P
=> (P × 10 × Rate)/100 = 5% of P
=> Rate = 0.5%
Now, let in 't' years the simple interest is equal to the principle
Simple interest = (P × 0.5 × t)/100
=> (P × t)/200 = P
=> t = 200 years
Therefore The correct answer is 200 years.

Q62. Answer: (d) 31.25

Given:
S.P : C.P = 21 : 16
Calculation:
Profit % = {(S.P - C.P)/C.P} × 100
=> {(S.P/C.P) - 1} × 100
=> {(21/16) - 1} × 100 = 31.25%
Therefore The correct answer is 31.25%.

Q63. Answer: (a) 30

Given:
C.P of 1 dozen apples = Rs.180/dozen
S.P of 1 dozen apple = Rs.19.5
Calculation:
Total cost price = 10 × 180 = Rs.1800
Total selling price = 10 × 12 × 19.5 = Rs.2340
Profit % = {(S.P - C.P)/C.P} × 100
=> {(2340 - 1800)/1800) × 100 = 30%
Therefore The correct answer is 30%.

Q64. Answer: (a) 62

Given:
=> $x = 4 + \sqrt{15}$
Calculation:
=> $x^2 = (4 + \sqrt{15})^2$
=> $16 + 15 + 8\sqrt{15} = 31 + 8\sqrt{15}$

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And

=> $1/x^2 = 1/(31 + 8\sqrt{15})$

=> $(31 - 8\sqrt{15})/(961 - 960) = 31 - 8\sqrt{15}$

Now, put the values in the equation:

=> $x^2 + (1/x^2)$

=> $31 + 8\sqrt{15} + 31 - 8\sqrt{15} = 62$

Therefore The correct answer is 62.

Q65. Answer: (d) 18

Calculation:

Let the number of masons be y.

Time taken = 10 days

Now, as 8 masons were absent,

Number of masons = (x - 8)

Time taken = 18

Now, as work done is equal

=> $y \times 10 = (y - 8) \times 18$

=> $10y = 18y - 144$

=> $8y = 144$

=> $y = 18$

Therefore Original number of masons = 18

Q66. Answer: (d) 3

Calculation:

Let the speed of the boat be x km/h and the speed of the stream to be y km/h

The speed of the boat upstream = (x - y)

The speed of the boat downstream = (x + y)

According to the question,

$\{8/(x - y)\} + \{12/(x + y)\} = 7$

=> $8x + 8y + 12x - 12y = 7(x^2 - y^2)$

=> $20x - 4y = 7(x^2 - y^2)$ ----(1)

Also,

$\{9/(x - y)\} + \{18/(x + y)\} = 9$

=> $x + y + 2x - 2y = (x^2 - y^2)$

=> $3x - y = (x^2 - y^2)$

=> $21x - 7y = 7(x^2 - y^2)$ ----(2)

Subtracting equation (1) from (2) we get,

=> $x - 3y = 0$

=> $x = 3y$

Now, from equation (1) we get,

=> $60y - 4y = 7(9y^2 - y^2)$

=> $56y = 56y^2$

=> $y(y - 1) = 0$

=> $y = 1$

Now,

=> $x = 3y = 3 \times 1 = 3$ km/hr

Therefore The speed of the boat in still water = 3 km/hr

Q67. Answer: (c) A

According to the graph, Movie A is the favourite of most people ie 450 people

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Q68. Answer: (a) 1800

Therefore Total number of people who responded to the survey = 450 + 300 + 100 + 300 + 350 + 250 + 50 = 1800

Q69. Answer: (b) 20

People whose favorite movie is C = 100

Total number of people who were surveyed = 1800

Therefore Central angle = (100/1800) × 360° = 20°

Q70. Answer: (b) 33.33

People whose favorite movie is B and D = 300 + 300 = 600

Total number of people who were surveyed = 1800

Therefore Required % = (600/1800) × 100 = 33.33%

Q71. Answer: (b) 12

Given:

Perimeter of the rhombus = 26 cm

Length of a diagonal (AC) = 5 cm

Concept used:

Diagonals of the Rhombus are perpendicular and bisect each other.

Calculation:

Perimeter of rhombus = 4 × side

=> 26 = 4 × AB

=> AB = 26/4 = 6.5 cm

Now,

=> AB = 6.5 cm

=> AO = AC/2 = 5/2 = 2.5 cm

In triangle ABO

By Pythagoras theorem:

=> $AO^2 + BO^2 = AB^2$

=> $(2.5)^2 + BO^2 = (6.5)^2$

=> $6.25 + BO^2 = 42.25$

=> $BO^2 = 36$

=> BO = 6 cm

=> BD = 2 × 6 = 12 cm

Therefore The length of its other diagonal = 12 cm

Q72. Answer: (d) 35

Given:

Area of a semi-circle = 1925 cm2

Formula used:

Area of semicircle = (1/2) × π × (Radius)2

Calculation:

Area of semicircle = (1/2) × π × R^2

=> (1/2) × (22/7) × R^2 = 1925

=> R^2 = 1225

=> R = 35 cm

Therefore The correct answer is 35 cm.

Q73. Answer: (c) 6.5

Given:

Total surface area of cube = 253.5 cm^2

Formula used:

Total surface area = 6 × $Side^2$

Calculation:

Total surface area = 6 × Side2

=> 6 × Side² = 253.5

=> Side² = 42.25

=> Side = 6.5 cm

Therefore The correct answer is 6.5 cm.

Q74. Answer: (b) (3√3 - 2)/6

Given:

angle E = 90°; angle F = 30°

Formula used:

Sin 60 = (√3/2)

Calculation:

As, angle E = 90° and angle F = 30°

By angle sum property,

=> angle D = 180° - (angle E + angle F)

=> angle D = 180° - (90° + 30°)

=> angle D = 60°

Now,

Putting the value in the below equation:

Sin D - (1/3)

=> Sin 60° - (1/3)

=> (√3/2) - (1/3) = (3√3 - 2)/6

Therefore The correct answer is (3√3 - 2)/6.

Q75. Answer: (c) 24/25

Given:

angle E = 90°

Cosec D = 25/24

Calculation:

Cosec D = 25/24

=> DF/EF = 25/24

=> DF = 25k and EF = 24k

For Cos F, Base = EF and hypotenuse = DF

Cos F = EF/DF = 24k/25k = 24/25

Therefore The correct answer is 24/25.

Q76. Answer: (a) Lack of complementary factors of production

Generally, unemployment in a developing country takes place because of lack of complementary factors of production.

• There are four factors of production- land, labor, capital and organization/entrepreneurship.

• If the country is not able to generate employment opportunities to gainfully engage and involve these factors of production, the required amount of output cannot be produced and income cannot be generated, which usually, results in unemployment.

• Unemployment is the condition when a large number of able-bodied people of working age, who are willing to work but could not find work at the current wage levels.

• As of 2018, round about 31 million Indians are unemployed.

• Types of Unemployment are as follows:

1	**Frictional Unemployment**	**Refers to temporary unemployment associated with the changing of jobs in the dynamic economy.**
2	Structural Unemployment	Refers to unemployment that occurs due to the long-term decline of certain industries.
3	Seasonal Unemployment	Refers to unemployment that results from a change in taste, fashion, and season.

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4	Voluntary Unemployment	Refers to unemployment that results when people are not willing to work at a certain wage rate, even when the work is available.
5	Involuntary Unemployment	Refers to unemployment that occurs when the people are ready to work but there are not enough job opportunities.
6	Cyclic Unemployment	Refers to unemployment that occurs as a result of the business cycle. E.g. In case of economic recession in a country, job opportunities decrease, workers get laid off from a job, etc.

Q77. Answer: (d) Secretary of Planning Commission

The Ex-officio Secretary of NDC is Secretary of Planning Commission.

• NDC stands for National Development Council.
• Set up in 1952, it is the topmost body for making decisions and deliberations in progressive matters in India.
• It is presided over by the Prime Minister of India

Q78. Answer: (b) Dharmpala

• Vikramshila University was founded by the Pala King, Dharmapala in the late 8th or early 9th century.
• It was situated at Bhagalpur, Bihar.
• It was one of the largest Buddhist universities with more than 100 teachers and about 1000 students.
• The university prospered for around four centuries and was later destroyed by Bakhtiyar Khilji.

Q79. Answer: (c) Lord Lytton

Lord Lytton used to write poetry with the pen name, "Owen Meredith".

• An English statesman and poet, Robert BulwerLytton (1831-1891), served as the Viceroy of India between 1876 - 1880.
• Some of his publications are as follows-
• Clytemnestra, The Earl's Return, The Artist, And Other Poems, 1855
• The Wanderer, 1859
• Lucile, 1860.
• The Ring of Ainasis, 1863
• Fables in Song, 1874
• Glenaveril, 1885
• After Paradise, or Legends of Exile, 1887, etc.

Q80. Answer: (d) Krakatau : Malaysia

Krakatau : Malaysiais NOT correctly matched.

• Krakatau is the volcanic island located in the Sunda Strait in Indonesia.
• Etna is an active volcano in Italy.
• Fujiyama(also known as Mount Fuji) is the highest mountain in Japan.
• Popa is the volcano in Myanmar.

Q81. Answer: (c) Parasnath

The correct answer is Parasnath.

Key Points

• Parasnath
• Parasnath Hills are a range of hills located in the Giridih district of Jharkhand.
• The highest peak is 1370 meters.
• It is one of the most important pilgrimage centers for Jains.
• They call it Sammed Sikhar. The hill is named after Parasnath, the 23rd Tirthankara.
• Twenty of the twenty-four Jain Tirthankaras attained salvation on this hill.
• The Santhals call it Marang Buru, the hill of the deity.
• They celebrate a hunting festival on the full moon day in Baisakh (mid-April).

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Additional Information

• Dhoopgarh

• Mount Dhupgarh is the highest point peak situated in the Mahadeo Hills (Satpura Range), Madhya Pradesh, India.

• Pachmarhi Hill station is situated near the peak.

• Pachmarhi is a hill station located in the Hoshangabad district of Madhya Pradesh state of central India.

• It has been the destination of a cantonment since British Raj.

• It is extensively known as Satpura ki Rani ("Queen of Satpura"), situated at a height of 1067 m in a valley of the Satpura Range in the Hoshangabad district.

• Dhupgarh, the highest point (1,352 m) present in Madhya Pradesh, and the Satpura range are situated here.

• It is also popular for Satpura Tiger Reserve.

• Pachmarhi

• It, also known as Satpura ki Rani, is a hill station in the central Indian state of Madhya Pradesh.

• Its many waterfalls include Apsara Vihar, with its calm pool, and soaring, single-drop Silver Fall nearby.

• The Bee Fall tumbles over a jagged rock face to the northwest.

• Leopards and Indian bison live in Satpura National Park.

• The ancient Pandav Caves are a group of 5 dwellings cut out of sandstone on a hill.

• Mahabaleshwar

• Mahabaleshwar is situated at Sahyadri mountain range in the Satara District of Maharastra.

• Its name is derived from a Lord Mahadev temple and three Sanskrit words, Maha (great), Bal (power) and Ishwar (God).

• Mahabaleshwar in Sanskrit means God of Great Power.

• Old Bombay Presidency used Mahabaleshwar as their summer capital.

Q82. Answer: (c) Music

Begum Akhtar (1914 - 1974) is associated with Music.

• Her real name is - Akhtari Bai Faizabadi.

• Given the title of Mallika-e-Ghazal, she is a classical singer of Indian Music.

• She was awarded PadmaBhushan, posthumously by the Indian Government.

Q83. Answer: (d) China

China has built the world's biggest air purifier, a 328 feet high tower, to combat air pollution.

• Built in the Shaanxi province, it has given more than 10 million cubic meters of clean air since it was installed (January 2018).

Q84. Answer: (b) Ramesh Kuntal Megh

Ramesh Kuntal Megh won the 2017 Sahitya Academy Award for Hindi literature.

• RameshKuntalMeghhas won this award for his work "Vishw Mithak Sarit Sagar", a literary criticism.

• A literary honor, Sahitya Academy Award, is given annually by the Sahitya Academy to writers of exceptional books.

Q85. Answer: (d) Kathmandu

The correct answer is Kathmandu.

Key Points

• The capital and largest city of Nepal is Kathmandu.

• It is situated at an altitude of 1,400 meters in the Kathmandu Valley.

• In the second century CE, the city was established.

• The valley has been the Newar people's home for centuries.

• It was formerly known as the "Nepal Mandala."

• The city is home to palaces, residences, and gardens that were created by the aristocracy of Nepal.

• Since 1985, it has served as the location of the South Asian Association for Regional Cooperation (SAARC) headquarters.

Additional Information

• Hetauda:

• In the Bagmati Province in central Nepal's Makwanpur District is a sub-metropolitan city called Hetauda.

• It serves as the Makwanpur District's administrative hub.

• Pokhara:

• Central Nepal's Pokhara is a city on the Phewa Lake.

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• It is referred to be the entrance of the Annapurna Circuit.
• Biratnagar:
• Biratnagar, a major city in Nepal, is the administrative center of Province No. 1.

Q86. Answer: (b) isotopes

Elements having same atomic numbers but a different mass number are called Isotopes.
• Isotopes have different physical properties and similar chemical properties.
• They are the atoms of the same element having the same numbers of protons but different numbers of neutrons.
• They have same chemical properties due to the same electronic configuration but different physical properties.

Q87. Answer: (b) Only I and III

Washing soda is used for removing permanent hardness of water &as a cleansing agent for domestic purpose.
• The chemical formula for Washing Soda is Na2CO3, and the chemical name is Sodium Carbonate.
• It usually occurs as decahydrate crystal.
• It is also known as Soda Ash or Soda Crystals.

Q88. Answer: (a) Only I and II

The minimum qualifications of a person to become a member of Lok Sabha:
• Must be a citizen of India&Must not be less than 25 years of age.
• The other conditions include:
• The candidate must be a voter for any parliamentary constituency in India.
• He/she must not hold an office of profit under Union Government.
• He should not be of an unsound mind.
• He/she must not be an undischarged insolvent.

Q89. Answer: (b) Twice a year

The correct answer is Twice a year.

Key Points

• The Indian Parliament is mandated to convene a minimum of two sessions annually.
• Sessions refer to the periods when the Rajya Sabha and Lok Sabha assemble to conduct parliamentary proceedings.
• The Parliament of India conducts three distinct types of sessions:
• Budget session (February to May)
• Monsoon session (July to September)
• Winter session (November to December).
• Article 85 of the Indian Constitution bestows upon the President the authority to call for sessions of each House, ensuring that there is no interval exceeding six months between consecutive session

Q90. Answer: (b) Small intestine

The small intestine is the longest part of the alimentary canal.
• The small intestine is also the largest part of the alimentary canal.
• The small intestine is divided into three regions:
• Duodenum (‘C’ shaped)
• Jejunum (a long coiled middle portion)
• Ileum (highly coiled)
• 90 percent of the absorption and digestion occurs in the small intestine.

Mistake Points

• The alimentary canal consists of the mouth, buccal cavity, pharynx, oesophagus, stomach, small intestine, large intestine, rectum, and anus. Hence small intestine is the correct answer.

Q91. Answer: (a) Analogous organs

The correct answer is Analogous organs.

Key Points

• Analogous organs: The organs which are different anatomically but similar functionally are called analogous organs.
• Eg. Wings of butterflies, birds, and bats, the Eyes of octopuses & mammals, and Flippers of penguins & dolphins.

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• All these have different anatomical structures but they perform the same function like Wings of butterfly, birds & bats differs in structure but all of them perform the function of flight.

• Analogous organs always show convergent evolution.

• In convergent evolution, the species of different ancestry start sharing analogous traits because of selection pressure or shared environment.

Additional Information

• Homologous organs: The organs which are similar in structural design & origin i.e. same anatomical structure but different in functions are called Homologous organs.

• Eg. The forelimbs of some animals like whales, bats & cheetah have similar anatomical structures i.e., humerus, radius, ulna, metacarpals, and phalanges but different functions.

• The forelimb of the whale is used in swimming, a bat's forelimb is used for flight while a cheetah uses the forelimb for running.

• Homologous organs always show divergent evolution

• Vestigial organs: The remnant organs of our past ancestors that are now today considered "use-less" are called Vestigial organs

Q92. Answer: (b) Elephants

In August 2017, Environment Ministry of India launched ‘Gaj Yatra’ to protect Elephants.

• It was launched by the Union Environment, Forest and Climate Change Minister, Dr. Harsh Vardhan on the occasion of World Elephant Day, which is celebrated every year on 12^(th) August.

• ‘GajYatra’ is a journey to celebrate our national heritage animal, Elephant.

• It aims at protecting 100 elephant corridors across India.

Q93. Answer: (c) China

Chinahas made the world’s largest amphibious aircraft named AG600.

• The plane is codenamed as Kunlong.

• It has the hull of a flying boat for waterborne operations along with a wheeled retractable undercarriage for alighting on land.

• AG600 is designed by the Aviation Industry Corporation of China (AVIC).

Q94. Answer: (a) Indian Commodity Exchange (ICEX)

In August 2017, Indian Commodity Exchange (ICEX)launched world’s first future contracts in ‘diamonds’.

• A future contract is an agreement between two parties to buy or sell an asset at a specified time in the future at a predetermined price.

• Indian Commodity Exchange (ICEX) in August 2017 launched world’s first future contracts in ‘diamonds’ with 1-carat futures contracts, and then subsequently added the 50-cents contracts.

• In April 2018, it launched 30-cents diamond futures contracts.

• The futures contracts will provide companies with direct hedging facilities.

• ICEX has devised a mechanism in which the vault agency delivers the diamond bought by the investor at the doorstep of the client.

• ICEX provides a nation-wide online trading platform in commodity derivative.

Q95. Answer: (a) 40

The resistance of an electrical component if a current of 0.2 A passes through it on the application of 8 V of a potential difference across it is 40 Ω.

Formula: Potential Difference V = Current I × Resistance R

R = V ÷ I

So,

= 8 ÷ 0.2

= 40Ω.

Resistance is the hindrance offered to the current in its passage through the conductor.

Q96. Answer: (a) is greater at the poles than at the equator

The value of acceleration due to gravity (g) is greater at the poles than at the equator.

• Since the earth is flattened at the Poles and bulged at the Equator, the Poles are nearer to the center of the earth than the Equatorial region.

• As acceleration due to gravity is inversely proportional to the distance, the poles being at a lesser distance from the center of the earth have more value of acceleration due to gravity.

• The acceleration produced by the force of attraction of the earth is known as acceleration due to gravity i.e., g

F = ma = mg

Q97. Answer: (a) Seismograph

Seismic waves are recorded by an instrument called the seismograph.

• The tremors produce vibrational disturbances or waves on earth's surface. These waves are called seismic waves.

• The seismic waves are recorded by an instrument called the seismograph. It measures and determines the magnitude of an earthquake.

• The record produced by the seismograph on a display screen or paper printout in form of a graph showing motion of the ground over a period of time is called the seismogram.

Q98. Answer: (b) Only C

Viktor Axelsen won the Badminton 2017 BWF Super Series Finals Men's Singles.

• In 2017 BWF World Championship, Viktor Axelsen became the first Danish player to win gold in the men's singles by beating China's Lin Dan.The last Danish Badminton player to win the title was Peter Rasmussen, in 1997.

• The 2017 BWF World Championships was held in Glasgow, Scotland.

Q99. Answer: (d) Satellites

Computer networks constituting the internet are connected by telephones, underwater cables, and Satellites.

• A computer network, also known asa data network, is a telecommunications network which allows computers to exchange its data.

• The Internet has emerged as a useful means of global communication, services and information sharing.

• A huge network of millions of computer networks constitutes the Internet. These networks are connected by telephones, underwater cables, and satellites.

Q100. Answer: (b) Public Purposes

On 3 January 2018, Lok Sabha passed Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017. The Bill seeks to permit construction in 'Prohibited areas' forPublic Purposes.

• The Ancient Monuments and Archaeological Sites and Remains (Amendment) Bill, 2017 amends the Ancient Monuments and Archaeological Sites and Remains (AMASR) Act, 1958.

• AMASR Act, 1958 prohibits construction in the 'prohibited areas' even if it is for public purposes. TheAncient Monuments and Archaeological Sites and Remains (Amendment)Bill,2017 amends this provision and permits construction of public works in these particular areas for public purposes.

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