SSC CHSL 2020 Official Paper 22 (Held on: 6 Aug 2021 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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

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ENGLISH LANGUAGE

Q1. Examine the four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. Next, keep tapping the pot on all sides and at the bottom until the plant loosens.

B. Finally, slide the plant gently and remove the old potting mix on a newspaper.

C. The first thing to do when repotting is to remove the plant from the current pot.

D. Begin by holding the plant gently, and turning the pot sideways.

(a) BDAC
(b) CDAB
(c) DBCA
(d) ACDB

Q2. The following sentence has been split into four segments. Identify the segment which contains a grammatical error.

Notwithstanding we were / all busy that weekend / we had to / cancel the outing.

(a) cancel the outing
(b) all busy that weekend
(c) Notwithstanding we were
(d) we had to

Q3. Select the most appropriate synonym of the given word.

CALLOUS

(a) inaccurate
(b) incredible
(c) inexperienced
(d) insensitive

Q4. Select the correct passive form of the given sentence.

He drove the car very carefully on the hilly terrain.

(a) The car is being driven very carefully on the hilly terrain.
(b) The car was driven very carefully on the hilly terrain.
(c) The car is driven very carefully on the hilly terrain.
(d) The car has been driven very carefully on the hilly terrain.

Q5. Select the option that will improve the underlined segment in the given sentence. In case no improvement is needed, select 'No improvement'

I must have dropped one of my gloves in the car.

(a) No improvement
(b) the
(c) any
(d) an

Q6. Select the INCORRECTLY spelt word.

(a) aggravate
(b) initiate
(c) titilate
(d) mediate

Q7. Select the most appropriate meaning of the underlined idiom in the given sentence.

He is very impulsive and does things without rhyme or reason.

(a) without any resources
(b) without anyone's help
(c) without proper planning
(d) without a reasonable explanation

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

a period of two weeks

(a) month
(b) century
(c) fortnight
(d) decade

Q9. Select the misspelt word.

(a) arrivel
(b) modern
(c) applause
(d) serious

Q10. Select the correct indirect form of the given sentence.

"I love Bollywood music," Deepu said to Reena.

(a) Deepu had told Reena that he loved Bollywood music.
(b) Deepu will say to Reena that he loved Bollywood music.
(c) Deepu told Reena that he loved Bollywood music.
(d) Deepu says to Reena that he loves Bollywood music.

Q11. Select the most appropriate synonym of the given word.

LIVID

(a) lively
(b) timid
(c) mild
(d) furious

Q12. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution'.

Small desert animals burrow underground across the days and come out only at night.

(a) within the days
(b) between days
(c) No substitution
(d) during the day

Q13. In the given sentence, identify the segment which contains a grammatical error.

If you rent a house near your office, it will save your time as well as also money.

(a) it will save your time
(b) as well as also money
(c) near your office
(d) If you rent a house

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Q14. Select the word which means the same as the group of words given.

Killing of one's mother

(a) patricide
(b) regicide
(c) infanticide
(d) matricide

Q15. Select the most appropriate meaning of the given idiom.

Add insult to injury

(a) to make fun of someone
(b) to make something worse
(c) to work hard on making up
(d) to wound physically

Q16. Fill in the blank with most appropriate word.

This part of the sea _____ with sharks.

(a) crowds
(b) expands
(c) teems
(d) suffices

Q17. Select the most appropriate word to fill in the blank.

It is _____ to see so many of our fellow Indians help the migrants in their struggle to go home.

(a) savouring
(b) relishing
(c) reuniting
(d) heartening

Q18. Select the most appropriate ANTONYM of the given word.

LAVISH

(a) frugal
(b) tiny
(c) luxurious
(d) excessive

Q19. Given below are four sentences in jumbled order. Select the option that gives their correct order.

A. Then he started on his eighteen kilometer expedition back to his village.

B. Mohan first equipped himself with a long, sturdy stick.

C. At several points, he lost the road and had to swim his way ahead.

D. It was a journey he would never forget where he had to use his stick constantly to locate the road.

(a) BADC
(b) ACBD
(c) CDBA
(d) DCAB

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

AFFINITY

(a) aversion
(b) weakness
(c) inclination
(d) attraction

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Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

In the 'Kingdom of Fools', both the king and the ministers were complete fools. They didn't want to do things (1)____ other kingdoms, so they decided to (2)__ night into day and day into night. They (3)__ that everyone should be awake at night, (4)___ their lands and run their (5)____ only after dark and should go to bed as soon as the sun came up.

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

(a) like
(b) so as
(c) same
(d) than

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

(a) agree
(b) adjust
(c) develop
(d) change

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

(a) ordered
(b) ruled
(c) presented
(d) believed

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

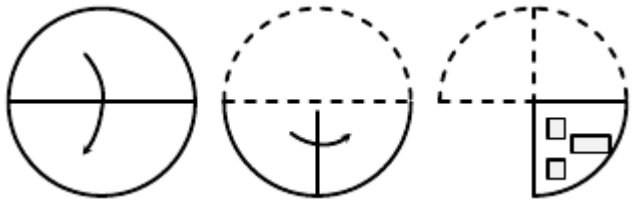
(a) till
(b) cut
(c) dig
(d) sow

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

(a) employment
(b) business
(c) career
(d) livelihood

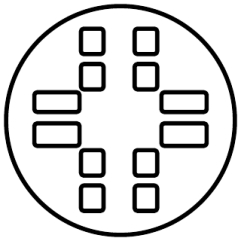
GENERAL INTELLIGENCE

Q26. A piece of paper is folded and cut as shown below in the question figures. Select from the given answer figures, how it will appear when unfolded.

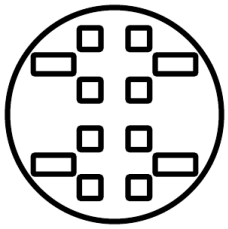


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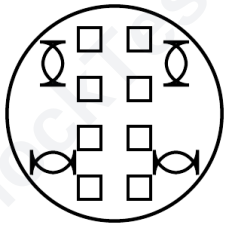
(a)



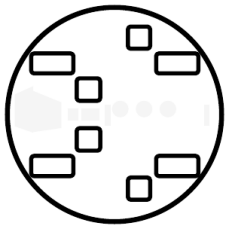
(b)



(c)



(d)



Q27. In a certain code language, BANKER is coded as 57 and SPAN is coded as 54. How will PRANK be coded in that language?

(a) 69
(b) 58
(c) 65
(d) 61

Q28. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

28 : 70

(a) 30 : 83
(b) 12 : 32
(c) 18 : 45
(d) 34 : 86

Q29. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) KMPV
(b) MIGF
(c) BDMS
(d) HKPT

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Q30. Select the option in which the numbers are related in the same way as are the numbers of the following set.

{2, 2, 9}

(a) {12, 60, 98}
(b) {6, 18, 46}
(c) {8, 36, 81}
(d) {4, 8, 25}

Q31. Four numbers have been given, out of which three are alike in some manner and one is different. Select the number that is different.

(a) 2197
(b) 4913
(c) 1331
(d) 2379

Q32. Select the option in which the numbers in the set share the same relationship as the numbers in the given set.

(14, 22, 77)

(a) (20, 16, 105)
(b) (17, 15, 76)
(c) (22, 11, 86)
(d) (18, 32, 144)

Q33. If 'A + B' means 'A is the mother of B', 'A × B' means 'A is the sister of B', and 'A * B' means 'A is the daughter of B', then how is R related to P in the following expression?

'R + V × Q × M * P'

(a) Daughter
(b) Wife
(c) Sister
(d) Mother

Q34. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All statements are answers.

Some statements are questions.

Conclusions:

I. No question is a statement.

II. Some answers are statements.

III. Some questions are statements.

(a) Only conclusions I and III follow
(b) Only conclusions II and III follow
(c) Only conclusions I and II follow
(d) Either conclusion I or III follows

Q35. Select the option that represents the letters that, when placed from left to right in the blanks below, will complete the letter sequence correctly.

K _ P _ L C _ R _ C P _ N _ P R

(a) C R P M R C
(b) M R P M R R
(c) E R P R R C
(d) C P P M R R

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Q36. Select the correct mirror image of the given combination when a mirror is placed on its right side.



(a)



(b)



(c)



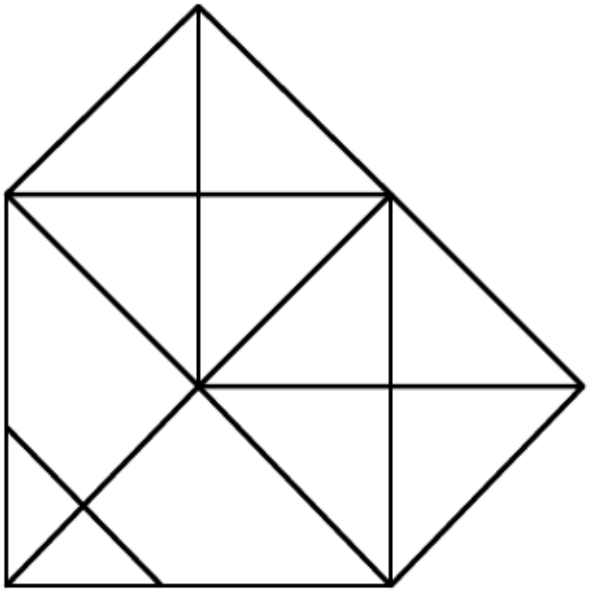
(d)



Q37. Three of the following four words are alike in a certain way and one is different. Select the odd one.

(a) Contentment
(b) Disgust
(c) Sadness
(d) Jealousy

Q38. How many triangles are there in the following figure?



(a) 19

(b) 24
(c) 22
(d) 26

Q39. Select the correct option that indicates the arrangement of the given words in a logical and meaningful order.

1. Class
2. Admission
3. Certificate
4. Application
5. Assessment

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

Q40. Select the option in which the words share the same relationship as that shared by the given pair of words.

Necklace : Gold

(a) Grass : Lawn
(b) Potter : Clay
(c) Ocean : River
(d) Paper : Wood pulp

Q41. Which two signs should be interchanged to make the given equation correct?

39 ÷ 3 × 13 + 26 – 13 = 2

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

Q42. ‘Bracelet’ is related to ‘Ornaments’ in the same way as ‘Clove’ is related to ‘_____’.

(a) Taste
(b) Spices
(c) Cooking
(d) Kitchen

Q43. Rs. 481 is distributed among A, B and C in such a way that B gets two-thirds of what A gets and C gets three-fourths of what B gets. How much does B get?

(a) Rs. 168
(b) Rs. 222
(c) Rs. 111
(d) Rs. 148

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

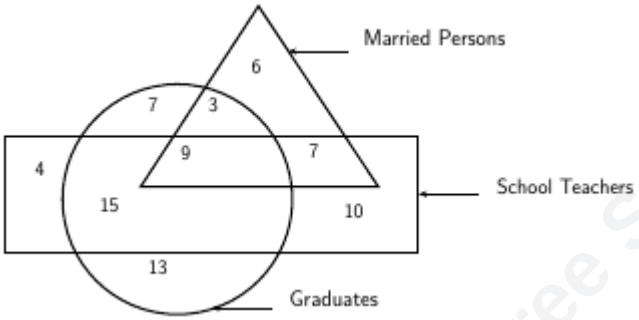
35, 35, 33, 99, 95, 475, ?

(a) 501
(b) 469
(c) 476
(d) 481

Q45. In the given diagram, the circle stands for 'graduates', the rectangle stands for 'school teachers', and the triangle stands for 'married persons'. The number given in the different segments represent the number of persons in that category.

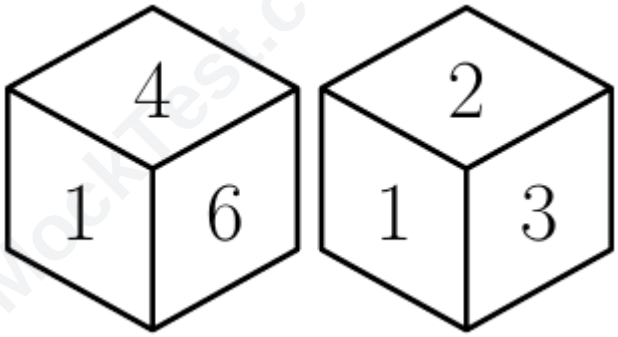
How many school teachers are either graduates or married person but NOT both?

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(a) 25
(b) 22
(c) 15
(d) 29

Q46. Two different positions of the same dice are shown. Select the number that will be at the top if '6' is at the bottom.



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

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

NEED : OGHH :: FAST : ?

(a) GCVX
(b) ECVZ
(c) GDUX
(d) GCWY

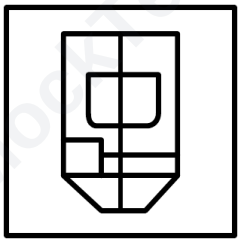
Q48. Select the option figure which contains figure X embedded in it as its part (rotation is NOT allowed).

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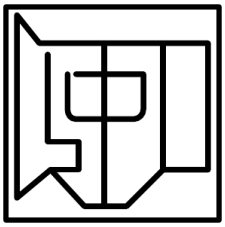


Figure X

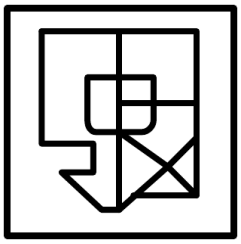
(a)



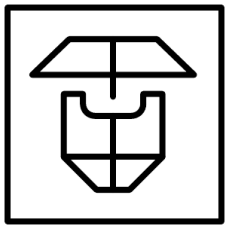
(b)



(c)



(d)

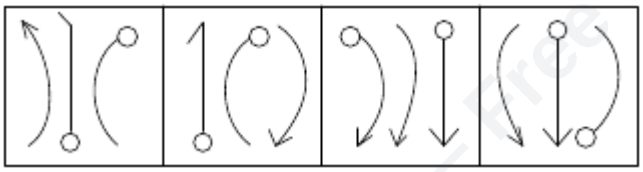


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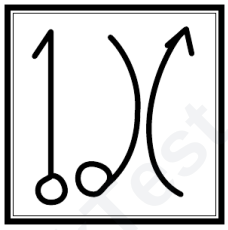
Q49. In a code language, SAUCE is written as ASVEC. How will MEANT be written as in that language?

(a) EMANT
(b) MEBTN
(c) EMBTN
(d) EMCTN

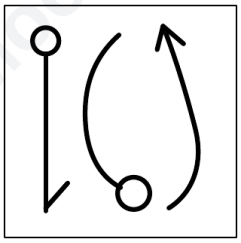
Q50. Select the figure that will come next in the following series.



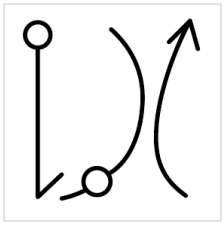
(a)



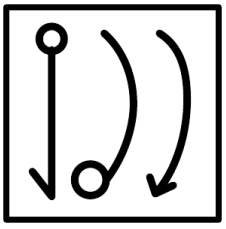
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. Ravi can row a boat in still water at the speed of 14 km/h. If a river is flowing at the sped of 2 km/h and Ravi takes 3 hours to cover a certain distance upstream, then how much time will he take to cover the same distance downstream?

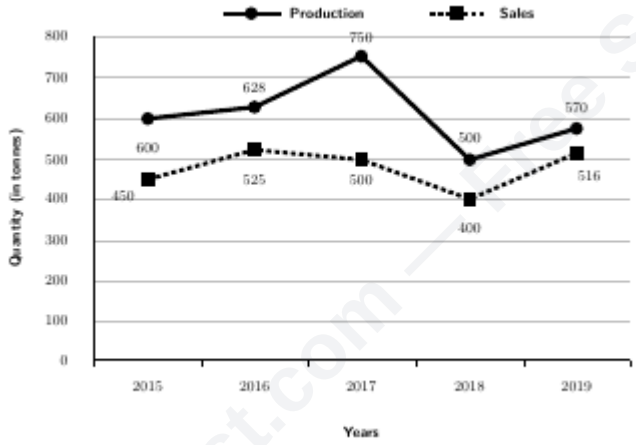
(a) 2 h 20 m
(b) 2 h
(c) 2 h 15 m

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(d) 2 h 30 m

Q52. The given line graph shows the production (in tonnes) and the sales (in tonnes) of a company.

How much more is the production in 2015 and 2017 taken together than the sales in 2016 and 2018 taken together (in tonnes)?



(a) 328
(b) 425
(c) 178
(d) 434

Q53. Geeta can assemble a toy in 10 minutes, whereas Sudha can assemble the same toy in 15 minutes. If they work together, how much time will they take to assemble 60 toys?

(a) 7 hours 30 minutes
(b) 7 hours
(c) 5 hours
(d) 6 hours

Q54. Simplify the following expression.

$(2a - b - 3c)(4a^2 + b^2 + 9c^2 + 2ab + 6ac - 3bc)$

(a) $8a^3 + b^3 + 27c^3$
(b) $8a^3 - b^3 - 27c^3 + 18abc$
(c) $-8a^3 + b^3 + 27c^3$
(d) $8a^3 - b^3 - 27c^3 - 18abc$

Q55. Simplify the following expression.

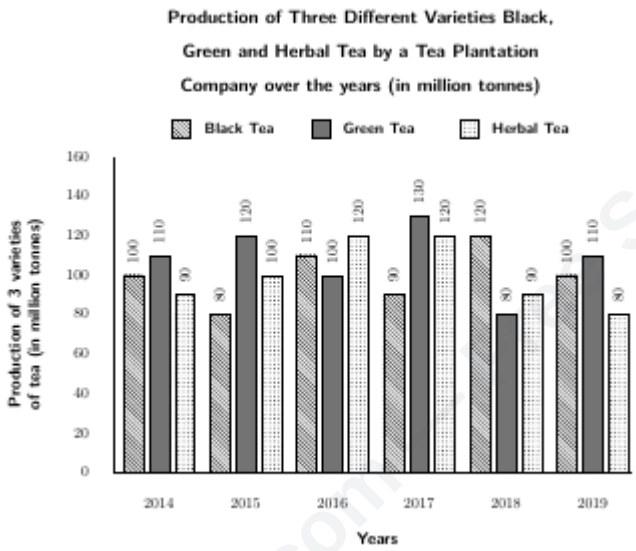
$3/5+22/5 \div [(7/8-3/4)\times 4 - 6\ 2/3 \div 4/3]\times 1/3$

(a) 17/15
(b) -13/5
(c) 19/45
(d) -2/9

Q56. Study the given bar graph and answer the question that follows.

A tea plantation company produces three varieties of tea - black tea, green tea and herbal tea. The production of three varieties (in million tonnes) over a period of six years from 2014 to 2019, has been shown in the bar graph here. The X-axis represents the years and the Y-axis displays the production of the three varieties in million tonnes.

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The total production of green tea in 2016 and 2018 is what percent of the total production of herbal tea in 2015 and 2017?

(a) 79.7
(b) 85.6
(c) 81.8
(d) 83.4

Q57. Joseph bought two woollen jackets for Rs. 2,100 and Rs. 3,150, respectively. By selling the first at a gain of k% and the second at a loss of k%, he found that the selling price of both is the same. What is the value of k?

(a) 20
(b) 25
(c) 22.64
(d) 15

Q58. Two chords PQ and RS of a circle meet at A when produced. AT is a tangent to the circle meeting it at T. The ratio PA : SA is equal to which of the following?

(a) AQ : AT
(b) RQ : QT
(c) RA : AQ
(d) AQ : QR

Q59. A sum of money lent at simple interest amounts to Rs. 9,920 after 2 years and to Rs. 12,800 after 5 years. Find the rate of interest per annum.

(a) 18%
(b) 6.57%
(c) 12%
(d) 9.68%

Q60. A reduction of 20% in the rate of sugar enables Sudhir to get 6 kg more sugar for Rs. 960. What is the reduced rate of sugar per kg?

(a) Rs. 35
(b) Rs. 40
(c) Rs. 36
(d) Rs. 32

Q61. If a + b - c = 0, then what is the value of $((b-c)^2)/4bc \times ((c-a)^2)/4ca \times ((a+b)^2)/4ab$?

(a) -1/2
(b) 1/64
(c) 3/4
(d) -3/4

Q62. If $\text{cosec}^2\theta(\cos\theta - 1)(1 + \cos\theta) = k$, then what is the value of k?

(a) -1
(b) 0
(c) 1
(d) 1/2

Q63. D, E and F are the feet of the perpendiculars from the vertices A, B and C, respectively, of a triangle ABC. If angle BED and angle BFE (in degrees) are 24 and 110, respectively, what is the measure (in degrees) of angle EBF?

(a) 55
(b) 46
(c) 86
(d) 67

Q64. The average weight of 3 persons A, B and C is 60 kg. When D joins the group, the average weight becomes 65 kg. When another person E whose weight is 3 kg less than that of D replaces A, the average weight of B, C, D and E becomes 67 kg. What is the weight of A?

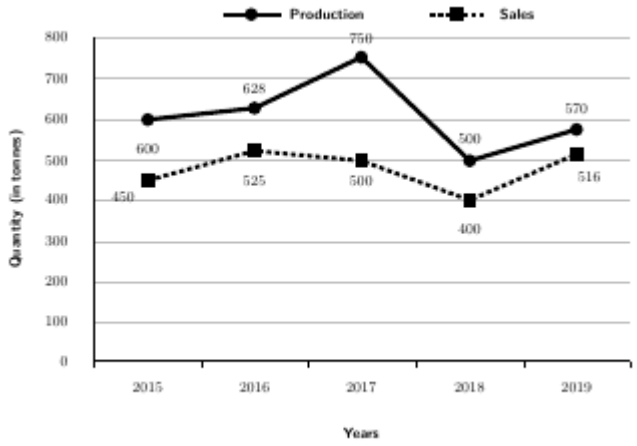
(a) 60 kg
(b) 72 kg
(c) 65 kg
(d) 69 kg

Q65. Evaluate the following expression.

$(\tan^2 60° + \text{cosec } 30° \sin 90° + 3\sec^2 30°)/(4\sin^2 45° + \sec^2 60° - \cot^2 30° - 5\cos^2 90°)$

(a) -12
(b) 19/17
(c) 3
(d) 7/3

Q66. The line graph shows the production (in tonnes) and the sales (in tonnes) of a company.



What is the percentage of maximum increase or reduction in the production of the company in comparison to the previous year?

(a) 33.33% reduction
(b) 46.67% reduction
(c) 29% increase
(d) 50% increase

Q67. PA and PB are tangents drawn to a circle with centre O from an external point P. If A and B are points on the circle and angle OBA = 42°, then angle APB is:

(a) 78°
(b) 86°
(c) 76°
(d) 84°

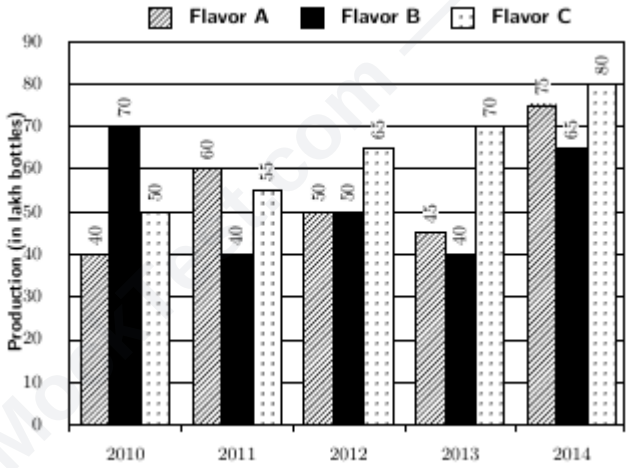
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Q68. A pair of jeans marked at Rs. 960 is offered in a departmental store for Rs. 816. What is the percentage of discount given by the shopkeeper?

(a) 17
(b) 15
(c) 17.64
(d) 16

Q69. A soft drink company prepares drinks of three different flavours - A, B, C. The production of the three flavours over a period of five years from 2010 to 2014 has been expressed in the given bar graph. Study the graph and answer the question that follows.

Production of three different flavours A, B and C (in lakh bottles) by a company over five years.



The difference between the average production of flavour A in 2012, 2013 and 2014 and the average production of flavour C in 2012, 2013 and 2014 is:

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

Q70. In ΔPQR, points T and S are on PQ and PR, respectively, such that TS is parallel to QR. If TQ = 7.2 cm, PS = 1.8 cm and SR = 5.4 cm, then find the length of PT.

(a) 1.35 cm
(b) 2 cm
(c) 3.6 cm
(d) 2.4 cm

Q71. If a : b = 5 : 7, b : c = 8 : 15, then find the value of 8c : 5a.

(a) 8 : 21
(b) 21 : 5
(c) 176 : 65
(d) 24 : 5

Q72. If the number 34k56k is divisible by 6, then what will be the largest value of k?

(a) 4
(b) 8
(c) 6
(d) 9

Q73. If $x - y = 4$ and $xy = 3$, then what is the value of $x^3 - y^3$?

(a) 64
(b) 100
(c) 28

(d) 88

Q74. In a triangle ABC, right-angled at C, if sec A =13/5, then find the value of (1+ sin A)/(cos B).

(a) 3/2
(b) 5
(c) 25/12
(d) 18/5

Q75. In a rectangular park having dimensions 60 m × 40 m, two circular flower beds with radius 7 m are developed. What is the area of the remaining portion of the park? (use π =22/7)

(a) 1749 m²
(b) 2092 m²
(c) 1196 m²
(d) 2246 m²

GENERAL AWARENESS

Q76. Which among the following is used as a fining agent in wine?

(a) Sodium
(b) Gelatin
(c) Baking Soda
(d) Chlorine

Q77. The deficiency of which of the following vitamins causes night blindness?

(a) Vitamin D
(b) Vitamin B2
(c) Vitamin E
(d) Vitamin A

Q78. What is India’s rank on the World Economic Forum’s Global Competitiveness Index of 141 countries for the year 2019?

(a) 48^(th)
(b) 68^(th)
(c) 65^(th)
(d) 45^(th)

Q79. Where is Harmandir Sahib (Golden Temple) situated?

(a) Ludhiana
(b) Amritsar
(c) Patiala
(d) Jalandhar

Q80. The musical instrument 'Kartal' from the state of Rajasthan comes under the category of _____.

(a) membranophones
(b) electrophones
(c) chordophones
(d) idiophones

Q81. One-third of the members of the Vidhan Parishad retire every _____ year/s.

(a) three
(b) one
(c) two
(d) four

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Q82. Which of the following file formats does MS Paint use to open and save files in Windows?

(a) .JPEG
(b) .PPT
(c) .DOC
(d) .XLS

Q83. Which sport was approved to be played at the 2024 Summer Olympics in Paris for the first time?

(a) Breakdancing
(b) Cricket
(c) Darts
(d) Parkour race

Q84. _____ holds office from the date of his/her election till immediately before the first meeting of the Lok Sabha after the dissolution of the one to which he/she was elected.

(a) Minister of Information and Broadcasting
(b) Speaker
(c) Vice President
(d) Minister of Parliamentary Affairs

Q85. Dr. Tsering Landol, who was one of the recipients of the Padma Bhushan 2020 award, hails from:

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

Q86. Which of the following nations ranked first in the World Press Freedom index 2020?

(a) Norway
(b) India
(c) France
(d) The US

Q87. Who among the following presided over the special session of Congress in September 1923 and at the age of 35 became the youngest man to be elected as the President of the Congress?

(a) Maulana Abul Kalam Azad
(b) Ram Manohar Lohia
(c) Mahadev Govind Ranade
(d) Bal Gangadhar Tilak

Q88. In which of the following categories does Indian boxer Lovlina Borgohain play?

(a) 81 kg
(b) 69 kg
(c) 91 kg
(d) 75 kg

Q89. As of January 2021, more than 93% of India’s chromite resources were located in:

(a) Madhya Pradesh
(b) Karnataka
(c) Odisha
(d) Jharkhand

Q90. 'Per Drop More Crop' is the goal for which Government of India scheme?

(a) Pradhan Mantri MUDRA Yojana (PMMY)
(b) Pradhan Mantri Awaas Yojana Gramin (PMAY-G)
(c) Pradhan Mantri Jan-Dhan Yojana (PMJDY)
(d) Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

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Q91. Which of the following is a computer application software?

(a) Word Processor
(b) Java
(c) Visual Basic
(d) RAM

Q92. Heat, in _____, is a type of energy transfer from a warmer substance to a colder one.

(a) magnet
(b) friction
(c) thermodynamics
(d) gravity

Q93. In the Battle of Swally (1612) the British fought against the _____.

(a) Danish
(b) Portuguese
(c) Dutch
(d) French

Q94. What was the total number of gold medals won by India at Commonwealth Games 2018?

(a) 26
(b) 33
(c) 44
(d) 18

Q95. LAC (Line of Actual Control) is an effective border between India and _____.

(a) Pakistan
(b) Bhutan
(c) Sri Lanka
(d) China

Q96. Who among the following is India's highest wicket taker in test cricket as of December 2020?

(a) Kapil Dev
(b) Bishan Singh Bedi
(c) Narendra Hirwani
(d) Anil Kumble

Q97. Which Indian state was the highest contributor to Food Corporation of India (FCI)'s total paddy procurement across the country till May 2020?

(a) Uttar Pradesh
(b) Punjab
(c) Andhra Pradesh
(d) Telangana

Q98. Whose autobiography is titled 'The Substance and the Shadow'?

(a) Raj Kapoor
(b) Kishore Kumar
(c) Rajesh Khanna
(d) Dilip Kumar

Q99. How many states does the 'STARS' project launched by the Government of India and World Bank in 2020 seek to cover?

(a) 6
(b) 4
(c) 8
(d) 10

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Q100. The National Education Policy (NEP), 2020 commits to raising the total expenditure by states and centre on education to _____ of GDP.

(a) 2%
(b) 4%
(c) 6%
(d) 8%

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) CDAB

The correct answer is 'CDAB'.

Key Points

• In order to arrange such types of jumbled sentences in the correct sequence, we need to follow some basic rules.
• This type of question comes under the chronological group category.
• Just we need to follow the words like first, second, next, last, finally, etc.
• If we read the sentences, we get to know the method of re-potting has been explained.
• Option C must be the first line as it's already mentioned in the sentence. (The first thing to do)
• Option D will be the second, as it's explaining how to start the process. (Begin by holding)
• Option A is the third sentence, as it's mentioned what to do next. (Next, keep tapping)
• Option B is the last one, as the word 'finally' clearly states the last step. (Finally, slide the plant gently).
• Hence, the correct answer is option 2.

Additional Information

• Sometimes in the 'chronological group category' sentence would be there with the date or year when a particular event took place.
• For example:
• In 1950, he was born. In 1980 wrote a novel. In 2010, he died.

Q2. Answer: (c) Notwithstanding we were

The correct answer is 'Notwithstanding we were'.

Key Points

• In the given sentence, the main focus is on the reason to cancel the outing.
• Reason can be expressed with the words like because or as.
• As we were all busy that weekend we had to cancel the outing.
• The use of notwithstanding is inappropriate here.
• Hence, the correct answer is option 3.

Additional Information

• Notwithstanding (preposition) means 'despite the face or thing mentioned.'

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• Notwithstanding severe headache, he gave the presentation.
• Many criticisms notwithstanding, this movie broke the record.

Q3. Answer: (d) insensitive

The correct answer is 'Insensitive'.

Key Points

• Callous means unkind, cruel, and without sympathy or feeling for other people.
• It may sound callous, but he doesn't care about the relationship when it comes to money.
• Insensitive means not feeling or showing sympathy for other people's feelings.
• Hence, the correct answer is option 4.

Additional Information

Let's understand the meaning of other words.

• Inaccurate (adjective) - not completely correct or exact - We will have a huge loss if we are inaccurate in the calculation of the budget.
• Incredible (adjective) - extremely good and impossible to believe - John's incredible performance proved his worth in the organization.
• Inexperienced (noun) - lack of knowledge or experience - She has been criticized for her inexperience in communication skills.

Q4. Answer: (b) The car was driven very carefully on the hilly terrain.

The correct answer is 'The car was driven very carefully on the hilly terrain.'

Key Points

• The sentence is in the past tense (indefinite) as the second form of a verb (drove) is used.
• To convert this sentence into passive, we need to make some changes.
• Start the sentence with the object (the car).
• Helping verb (was) with 3rd form of the main action verb (driven) would be used.
• On the basis of the above-mentioned changes, the passive sentence would be.
• The car was driven very carefully on the hilly terrain.
• Hence, the correct answer is option 2.

Additional Information

• Let's understand the concept with some more examples.
• He bought a costly mobile a week ago.
• A costly mobile was bought by him a week ago. (Don't mention the doer if you want to draw attention on mobile only.)

Q5. Answer: (a) No improvement

The correct answer is 'No improvement,'

Key Points

• In the sentence, the person is recalling that where he has dropped his one of the gloves.
• To express high possibility in past tense, the model 'must' is used with 'have and 3rd form of a verb'.
• If we check the sentence, there is not required any improvement.
• Hence, the correct answer is option 1.

Q6. Answer: (c) titilate

The incorrect spelling is 'titilate',

Key Points

• If we observe the options, we find that:
• Option 3 'titilate' is wrongly spelled, the accurate spelling is 'titillate'.
• Titillate (verb) - to make someone excited intentionally but only a little, usually with sexual images and descriptions.
• Many advertisements are intentionally designed to titillate.
• Hence, the correct answer is option 3.

Additional Information

• Let's understand the meaning of other words.
• Aggravate (verb) - to make a bad situation worse - Barricading the routes just aggravates the problem of traffic jams.
• Initiate (verb) - to begin something - I was the one who initiated the group discussion.

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• Mediate (verb) - to intervene in a dispute to bring about an agreement - We have an experienced manager to mediate between the client and the salesman.

Q7. Answer: (d) without a reasonable explanation

The solution is in Hindi. Read it online.

Q8. Answer: (c) fortnight

The correct answer is 'fortnight'.

Key Points

• A period of two weeks or fifteen days is called 'a fortnight'.

• I will be back in a fortnight.

• The project will be completed in a fortnight.

• Hence, the correct answer is option 3.

Additional Information

• Let's understand the meaning of other words.

• Months - It is one of the twelve periods of time that a year is divided into. January, February, etc.

• Century - It is a period of hundred years that is when stating a date. The 19th century was the period from 1801 to 1900.

• Decade - It is a period of ten years. 1980 to 1989

Q9. Answer: (a) arrivel

The incorrect spelling is 'arrivel'.

Key Points

• Arrivel is the word that is misspelt.

• The accurate spelling is 'arrival'.

• It means the action, process, or fact of arriving somewhere.

• On the arrival of a famous cricketer, many people were gathered.

• There was no one present on my arrival.

• Hence, the correct answer is option 1.

Additional Information

• Let's understand the meaning of other words.

• Modern - designed or made using the most recent ideas and methods.

• Applause - the action or sound made by people clapping their hands repeatedly.

• Serious - severe in effect, not joking.

Q10. Answer: (c) Deepu told Reena that he loved Bollywood music.

The correct answer is 'Deepu told Reena that he loved Bollywood music.'

Key Points

• The sentence is in the past tense.

• To convert from direct into indirect speech, we need to make some required changes.

• First of all, 'said to' will be changed into 'told'.

• Second, remove inverted commas and use 'that'.

• Based on the subject and object of reporting speech, bring some changes in the reported speech noun. (Deepu is the one who loved music, so change 'I' into 'he'.)

• Make required changes in the verb based on the tense of 'reporting speech'. ('Said to' represents past indefinite tense so the verb 'love' will be changed into 'loved'.)

• Now the indirect speech would be:

• Deepu told Reena that he loved Bollywood music.

Additional Information

• Let's understand the same concept with some more examples.

• John said to Eva, "I want to be a great lawyer".

• John told Eva that he wanted to be a great lawyer.

• Patrick said to me, "I like Bollywood movies".

• Patrick told me that he liked Bollywood movies.

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Q11. Answer: (d) furious

The correct answer is 'furious'.

Key Points

• Livid means extremely angry, furious, etc.

• He was livid to see the journalist.

• She was livid to observe her friend's behavior.

• Hence, the correct answer is option 4.

Additional Information

• Let's understand the meaning of other words.

• Lively - full of energy and enthusiasm - We have a lively group of faculty.

• Timid - shy and nervous - I was timid in childhood and gradually I gained confidence.

• Mild - not extreme and violent - He doesn't accept even mild criticism of his work.

Q12. Answer: (d) during the day

The correct answer is 'during the day.'

Key Points

• According to the sentence, throughout the day small desert animals stay underground and come out only at night.

• To express throughout the course and duration, we can use the preposition 'during'.

• Small desert animals burrow underground during the days and come out only at night.

• Hence, the correct answer is option 4.

Additional Information

• Let's understand the use of the preposition 'during' with some more examples.

• During - from the beginning to the end of a particular period.

• He works during the night and sleeps in the day.

• I decided to spend my weekends in the hill station during the summer.

Q13. Answer: (b) as well as also money

The correct answer is 'as well as also money'.

Key Points

• If we observe the sentence, there is no need to use 'also' with 'as well as'.

• If you rent a house near your office, it will save your time as well as money.

Hence, the correct answer is option 2.

Additional Information

As well as is an adverb that means 'also', 'too', or 'in addition.'

Normally, it is used at the end of the clause.

• We look forward to seeing you again and to meeting your wife as well.

As well as is a multi-word preposition which means 'in addition to'.

• They have invited Robert as well as Jill.

• When I go to the hill station, I like waking as well as skiing.

Q14. Answer: (d) matricide

The correct answer is 'matricide.'

Key Points

Let's understand the meaning of given words.

• Patricide - The killing of one's father.

• Regicide - A person who kills or takes part in killing a king.

• Infanticide - A person who kills his/her child within a year of birth.

• Matricide - The killing of one's mother

Hence, the correct answer is option 4.

Additional Information

• Parricide or Parenticide - The killing of one's mother, father, or other close relatives.

• Fratricide - The act of killing a brother; in the military context, death by friendly fire.

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Q15. Answer: (b) to make something worse

The correct answer is 'to make something worse'.

Key Points

• The meaning of the idiom:

• 'Add insult to injury' means to act in a way that makes a bad situation worse.

• She told him that he was too old to work, and then to add insult to injury, she deducted the amount based on that.

• Hence, the correct answer is option 2.

Additional Information

• Let's understand the meaning of this idiom with some more examples.

• He was so upset to see his result, and then to add insult to injury, his father rebuked him harshly.

• He lost his wallet while coming from the office, and then to add insult to injury, the traffic police charged a penalty for crossing the speed limit.

Q16. Answer: (c) teems

The correct answer is 'teems'.

Key Points

• Let's understand the meaning of words.

• Crowd (verb) - fill (a large number of people), almost completely, no room for movement.

• Expand (verb) - become or make larger or more extensive.

• Teem (verb) - be full of or swarming with.

• Suffice (verb) - be enough or sufficient.

• This part of the sea teems with sharks.

• Hence, the correct answer is option 3.

Additional Information

• Let's understand with some more examples.

• Every garden is teeming with wildlife.

• If your neighborhood teems with cats, it means many cats are running around.

• He thinks 20000/- per month can suffice to manage his expenses.

Q17. Answer: (d) heartening

The correct answer is 'heartening'.

Key Points

• Let's understand the meaning of the given options.

• Savour - to enjoy food or an experience slowly.

• Relish - to like or enjoy something.

• Reunite - to bring people together again.

• Hearten - to make someone feel happier and more positive about the situation.

• It is heartening to see so many of our fellow Indians help the migrants in their struggle to go home.

• Hence, the correct answer is option 4.

Additional Information

• Let's understand with some more examples.

• When you have any sweets after a long time, I suggest you savour every mouthful.

• My friend always relishes the challenge.

• I decided to reunite all my friends and have a party.

• I was heartened by the news that my friend is getting married.

Q18. Answer: (a) frugal

The correct answer is 'frugal'.

Key Points

• The word 'lavish' means the one who is careless in spending, giving, or using more than is necessary or reasonable.

• The antonym of this word is frugal which means the one who is careful to use only as much money, food, etc as is necessary.

• Hence, the correct answer is option 1.

Additional Information

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• Let's understand the meaning of other words.
• Tiny - extremely small.
• Luxurious - very comfortable and expensive.
• Excessive - too much.

Q19. Answer: (a) BADC

The correct answer is 'BADC'.

Key Points

• In order to arrange the jumbled sentences in order, we need to understand some of the hints already given in the sentences.
• The first sentence would be 'B', as it's clearly mentioned the very first thing Mohan did.
• (Mohan first equipped himself with a long, sturdy stick.)
• The second sentence is 'A', as it states the reason why Mohan took that sturdy stick.
• (Then he started on his eighteen-kilometer expedition back to his village.)
• The third sentence will be 'D' which tells what this eighteen-kilometer expedition is.
• (It was a journey he would never forget where he had to use his stick constantly to locate the road.)
• The last sentence is obviously 'C' that we are left with.
• (At several points, he lost the road and had to swim his way ahead.)
• Hence, the correct answer is option 1.

Q20. Answer: (a) aversion

The correct answer is 'aversion'.

Key Points

• The word 'affinity' means a natural liking for and understanding of someone or something.
• She has a special affinity with dogs.
• The antonym of this word is aversion which means a strong dislike or unwillingness.
• I had a deep aversion to waking up early morning.
• Hence, the correct answer is option 1.

Additional Information

• Let's understand the meaning of other words.
• Weakness - the state or condition of being weak.
• Inclination - tendency to act or feel in a particular way.
• Attraction - feeling of liking someone because of the way they look or behave.

Q21. Answer: (a) like

The correct answer is 'like'.

Key Points

• At the beginning of the passage, it's clearly mentioned that the king and the ministers were fools.
• By just roughly going through the passage, you would get to know that they wanted to do something different than other kingdoms.
• Now if we look at the options:
• 'So as' means with the purpose.
• 'Same' means not different.
• 'Than' is used for comparison.
• 'Like' means having the same qualities.
• Apart from the preposition 'Like', none is relevant as per the context.
• They didn’t want to do things like other kingdoms.
• Hence, the correct answer is option 1.

Additional Information

• Let's understand the usage of 'like' with some more examples.
• I don't want to be like you.
• He didn't want to dance like others.

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Q22. Answer: (d) change

The correct answer is 'change'.

Key Points

• The sentence says that the king and the ministers didn't want to do the same things as other kingdoms.
• In order to do something different, they have to change something.
• That's why options 1,2, and 3 i.e. agree, adjust, and develop are not relevant.
• so they decided to change night into day and day into night.
• Hence, the correct answer is option 4.

Additional Information

• If we need to make changes completely, the words related to the agreement, adjustment, and development won't work.

Q23. Answer: (a) ordered

The correct answer is 'ordered'.

Key Points

• When we read the sentence, we get to know that in order to keep everyone awake at night an authoritative action must be taken.
• 'Ordered' means an authoritative command or instruction.
• 'Rule' means exercising ultimate power over (the area and its people).
• 'Present' means give or award formally or ceremonially.
• 'Believe' means to accept something is true.
• If we check the meaning of the words only one word serves the requirement i.e. ordered.
• They ordered that everyone should be awake at night.
• Hence, the correct answer is option 1.

Additional Information

• Let's understand the meaning of given words with some more examples.
• Our commander ordered us to leave the place immediately.
• Our country has been ruled by corrupted politicians after Britishers.
• He presented a proposal in such a graceful manner that she could not deny it.
• I believed him without any evidence and expelled one of my experienced employees.

Q24. Answer: (a) till

The correct answer is 'till'.

Key Points

• The sentence says that it was ordered by them to stay awake at night and prepare land for crops.
• It means to turn over the soil.
• If we look at the options:
• Option 1 'till' means to turn over the soil and to prepare land for crops to be planted.
• Option 2 'cut' - there is nothing to cut in the land.
• Option 3 'dig' - there is no benefit to digging the land.
• Option 4 'sow' - without preparing the land, the process of sowing can't be possible.
• 'Till' is right option that is relevant according to the context.
• They ordered that everyone should be awake at night, till their lands.
• Hence, the correct answer is option 1.

Q25. Answer: (b) business

The correct answer is 'business'.

Key Points

• The sentence says that it was ordered by them to stay awake at night and till their lands and run their _____ only after dark.
• If we look at the options:
• Option 1 'employment' - there is nothing related to the employment in the sentence.
• Option 2 'business' - another meaning of business is related to work. Running a business is quite common in usage.
• Option 3 'career' - there is nothing related to the career in the sentence.
• Option 4 'livelihood' - securing the necessities of life.
• 'Business' is the right option that is relevant according to the context.

• They ordered that everyone should be awake at night, till their lands and run their business only after dark.
• Hence, the correct answer is option 2.

Q26. Answer: (b) [figure]

The image obtained when the paper is unfolded is,
Hence, "option 2" is the correct answer.

Q27. Answer: (c) 65

The table is alphabets place value:
The pattern followed here is:
Sum of the positional values of the letters + total number of the letter = number.
BANKER → Total number of latter is 6.
B(2) + A(1) + N(14) + K(11) + E(5) + R(18) = 2 + 1 + 14 + 11 + 5 + 18 = 51
Sum of the positional values of the letters + total number of the letter = number
51 + 6 = 57
And,
SPAN → Total number of latter is 4.
S(19) + P(16) + A(1) + N(14) = 19 + 16 + 1 + 14 = 50
Sum of the positional values of the letters + total number of the letter = number
50 + 4 = 54
Similarly,
PRANK → Total number of latter is 5.
P(16) + R(18) + A(1) + N(14) + K(11) = 16 + 18 + 1 + 14 + 11 = 60
Sum of the positional values of the letters + total number of the letter = number
60 + 5 = 65
Hence, PRANK will be written as “65”.

Q28. Answer: (c) 18 : 45

The Logic here is as follows:
1^(st) Number : 2^(nd) number
=> (1^(st) Number × 5) ÷ 2 = 2^(nd) number
In 28 : 70
(1^(st) Number × 5) ÷ 2
= (28 × 5) ÷ 2
= 140 ÷ 2
= 70 = 2^(nd) number
Now check the all options,
Option (1) 30 : 83
(1^(st) Number × 5) ÷ 2
= (30 × 5) ÷ 2
= 150 ÷ 2
= 75 ≠ 2^(nd) Number
Option (2) 12 : 32
(1^(st) Number × 5) ÷ 2
= (12 × 5) ÷ 2
= 60 ÷ 2
= 30 ≠ 2^(nd) Number
Option (3) 18 : 45
(1^(st) Number × 5) ÷ 2
= (18 × 5) ÷ 2
= 90 ÷ 2
= 45 = 2^(nd) Number
Option (4) 34 : 86

(1^(st) Number × 5) ÷ 2
= (34 × 5) ÷ 2
= 170 ÷ 2
= 85 ≠ 2^(nd) Number
Hence, the correct answer is "18 : 45".
Alternate MethodThe logic followed here is:
(1st number ÷ 2) × 5 = 2nd number
For 28 : 70
28 = 14 × 2
70 = 14 × 5
Similarly,
Option 3) 18 : 45
18 = 9 × 2
45 = 9 × 5
Hence, the correct answer is "Option 3".

Q29. Answer: (b) MIGF

Table show alphabet serial number –
The pattern followed is,
All follow the same pattern, except 'MIGF'.
Hence, "MIGF" is the odd one.

Q30. Answer: (d) {4, 8, 25}

The Logic here is as follows:
(1^(st) Number + 2^(nd) number) × 2 + 1 = 3^(rd) Number
In {2, 2, 9}
(1^(st) Number + 2^(nd) number) × 2 + 1
= (2 + 2) × 2 + 1
= 4 × 2 + 1
= 8 + 1
= 9 = 3^(rd) Number
Now check the all options,
Option (1) {12, 60, 98}
(1^(st) Number + 2^(nd) number) × 2 + 1
= (12 + 60) × 2 + 1
= 72 × 2 + 1
= 144 + 1
= 145 ≠ 3^(rd) Number
Option (2) {6, 18, 46}
(1^(st) Number + 2^(nd) number) × 2 + 1
= (6 + 18) × 2 + 1
= 24 × 2 + 1
= 48 + 1
= 49 ≠ 3^(rd) Number
Option (3) {8, 36, 81}
(1^(st) Number + 2^(nd) number) × 2 + 1
= (8 + 36) × 2 + 1
= 44 × 2 + 1
= 88 + 1
= 89 ≠ 3^(rd) Number
Option (4) {4, 8, 25}
(1^(st) Number + 2^(nd) number) × 2 + 1

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= (4 + 8) × 2 + 1
= 12 × 2 + 1
= 24 + 1
= 25 = 3^(rd) Number
Hence, the correct answer is "{4, 8, 25}".

Q31. Answer: (d) 2379

The logic followed here is:
Option (1) 2197 → It is perfect cube of 13.
Option (2) 4913 → It is perfect cube of 17.
Option (3) 1331 → It is perfect cube of 11.
Option (4) 2379 → It is not a perfect cube of any number.
Hence, “2379” is an odd one.

Q32. Answer: (d) (18, 32, 144)

The Logic here is as follows:
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2) = 3^(rd) Number
In (14, 22, 77)
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2)
= (14 ÷ 2) × (22 ÷ 2)
= 7 × 11
= 77 = 3^(rd) Number
Now check the all options,
Option (1) (20, 16, 105)
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2)
= (20 ÷ 2) × (16 ÷ 2)
= 10 × 8
= 80 ≠ 3^(rd) Number
Option (2) (17, 15, 76)
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2)
= (17 ÷ 2) × (15 ÷ 2)
= 8.5 × 7.5
= 63.75 ≠ 3^(rd) Number
Option (3) (22, 11, 86)
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2)
= (22 ÷ 2) × (11 ÷ 2)
= 11 × 5.5
= 60.5 ≠ 3^(rd) Number
Option (4) (18, 32, 144)
(1^(st) Number ÷ 2) × (2^(nd) number ÷ 2)
= (18 ÷ 2) × (32 ÷ 2)
= 9 × 16
= 144 = 3^(rd) Number
Hence, the correct answer is "(18, 32, 144)".

Q33. Answer: (b) Wife

Given:
'A + B' means 'A is the mother of B'.
'A × B' means 'A is the sister of B'.
'A * B' means 'A is the daughter of B'.
Let us first decode the given symbols and then draw a family tree.

A is			

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Symbol	•	×	•
Meaning	mother	sister	daughter
to B			

Now break the code of 'R + V × Q × M * P'

1) R + V

'R + V' means 'R is the mother of V'

2) V × Q

'V × Q' means 'V is the sister of Q'

3) Q × M

'Q × M' means 'Q is the sister of M'

4) M * P

'M * P' means 'M is the daughter of P'

Hence, R is "wife" of P.

Q34. Answer: (b) Only conclusions II and III follow

Statements:

All statements are answers.

Some statements are questions.

The least possible diagram for the given statements is as follows

Conclusions:

I. No question is a statement → False (it is not a possibility because already statement given some statements are questions)

II. Some answers are statements → True (because all statements are answers so some answers are also statements)

III. Some questions are statements → True (because some statements are questions so some questions are also statements)

Hence, "Only conclusions II and III follow".

Q35. Answer: (a) C R P M R C

Given :- K _ P _ L C _ R _ C P _ N _ P R

By checking options and substituting accordingly.

1): C R P M R C → K C P R / L C P R / M C P R / N C P R

Here first letter of word is increasing by +1.

K + 1 = L, L + 1 = M, M + 1 = N.

2): M R P M R R → K M P R / L C P R / M C P R / N R P R

3): E R P R R C → K E P R / L C P R / R C P R / N C P R

4): C P P M R R → K C P P / L C P R / M C P R / N R P R

• Option (1) gives a pattern of K C P R / L C P R / M C P R / N C P R.

Hence, 'C R P M R C' is the correct answer.

Q36. Answer: (b) [figure]

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

Hence, "option (2)" is the correct answer.

Additional Information

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

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

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

Water image is just a reflection where top and bottom part of the images changed where left and right side of the image remain same.

Q37. Answer: (a) Contentment

The logic followed here is:

Except option 1, all words are negative words whereas option 1 word is positive word in all words.

Option 1) Contentment is the state of being happy and satisfied

Option 2) Disgust is a feeling of very strong dislike or disapproval.

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Option 3) Sadness is the state of being sad.
Option 4) Jealousy is the feeling of anger.
Hence, “Contentment” is an odd one.

Q38. Answer: (d) 26

The number of triangles in the given figure is:
So, there are a total of 26 triangles in the figure.
Hence, ‘26’ is the correct answer.

Q39. Answer: (c) 4, 2, 1, 5, 3

The logical and meaningful order of the given words is as follows:
LOGIC: The words have been arranged according to the stage of education.
4. Application → Firstly we fill out the application form for admission in school, college or institute etc.
2. Admission → After filling out the application form we get admission to school, college or institute etc.
1. Class → After admission we attend the class in school, college or institute etc.
5. Assessment → After exam assessment of marks in school, college or institute etc.
3. Certificate → After the assessment we get the certificate in school, college or institute etc.
Hence, "4, 2, 1, 5, 3" is the correct answer.

Q40. Answer: (d) Paper : Wood pulp

The logic followed here is:
Necklace : Gold → Gold is needed to make a necklace
Similarly,
Paper : Wood pulp → Wood pulp is needed to make paper.
Hence, ‘Paper : Wood pulp’ is the correct answer.

Q41. Answer: (b) ÷ and –

According to the BODMAS rule:
Option 1 : ÷ and ×
Given:
39 ÷ 3 × 13 + 26 – 13 = 2
After interchange the signs;
39 × 3 ÷ 13 + 26 – 13 = 2
By BODMAS rule
9 + 26 – 13 = 2
35 – 13 = 2
22 ≠ 2 (LHS ≠ RHS)
Option 2 : ÷ and –
Given:
39 ÷ 3 × 13 + 26 – 13 = 2
After interchange the signs;
39 - 3 × 13 + 26 ÷ 13 = 2
By BODMAS rule
39 - 3 × 13 + 2 = 2
39 – 39 + 2 = 2
41 - 39 = 2
2 = 2 (LHS = RHS)
Option 3 : × and –
Given:
39 ÷ 3 × 13 + 26 – 13 = 2
After interchange the signs;
39 ÷ 3 - 13 + 26 × 13 = 2
By BODMAS rule

13 - 13 + 26 × 13 = 2
13 - 13 + 338 = 2
13 - 13 + 338 = 2
351 - 13 = 2
338 ≠ 2 (LHS ≠ RHS)
Option 4 : + and –
Given:
39 ÷ 3 × 13 + 26 – 13 = 2
After interchange the signs;
39 ÷ 3 × 13 - 26 + 13 = 2
By BODMAS rule
13 × 13 - 26 + 13 = 2
169 - 26 + 13 = 2
182 - 26 = 2
156 ≠ 2 (LHS ≠ RHS)
Hence, the answer is "÷ and –".

Q42. Answer: (b) Spices

The logic followed here is:
Given:
'Bracelet' is related to 'Ornaments' → Bracelet is the type of ornaments.
Similarly,
'Clove' is related to 'Spices'→ Clove is the type of spices.
Hence, 'Spices' is the correct answer.

Q43. Answer: (d) Rs. 148

Given:
1) Rs. 481 is distributed among A, B and C
=> A + B + C = 481
2) B gets two-thirds of what A gets.
=> B = 2/3 A
=> B : A = 2 : 3
=> A : B = 3 : 2 = 6 : 4
3) C gets three-fourths of what B gets.
=> C = 3/4 B
=> C : B = 3 : 4
=> B : C = 4 : 3
Now, A : B : C = 6 : 4 : 3
SO, A = 6x; B = 4x; C = 3x (where x is the common factor of ratio)
From equation 1
=> A + B + C = 481
=> 6x + 4x + 3x = 481
=> 13x = 481
=> x = 37
We know that B = 4x = 4 × 37 = 148
Hence, "148" is the correct answer.

Q44. Answer: (b) 469

The pattern followed here is:
Hence, '469' is the correct answer.

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Q45. Answer: (b) 22

The shaded part represents is the number of school teachers are either graduates or married person but NOT both.

The number of school teachers are either graduates or married person but NOT both = 15 + 7 = 22

Hence, '22' is the correct answer.

Q46. Answer: (a) 3

Logic: If two dice have the same face value in the given image then their clockwise or anticlockwise wise number are known as opposite numbers in dice.

Given,

In first dice and second dice.

Number '1' is common.

The left letter will be opposite to each other writing them clockwise starting from 1.

Letter	Opposite
4	2
6	3
1	5

Hence, the face opposite to the 6 is "3".

Q47. Answer: (a) GCVX

The logic here is,

NEED : OGHH

Similarly,

FAST : ?

Hence, "GCVX" is correct answer.

Q48. Answer: (b) [figure]

The embedded part of this image is:

Hence, option (2) is the correct answer.

Q49. Answer: (c) EMBTN

The table is alphabets place value:

The pattern followed here is:

SAUCE is written as ASVEC

Similarly,

Hence, 'MEANT' is coded as "EMBTN".

Q50. Answer: (c) [figure]

The figure that will replace the question mark (?) in the following figure series is shown below:

1) First position small figure shifts to the last position and flip vertical.

2) Second position small figure shifts to the first position and flip horizontal.

3) Last position small figure shifts to the second position.

Hence, 'option 3' is the correct answer.

Q51. Answer: (c) 2 h 15 m

Given:

Speed of the boat = 14kmph

Flow of the river = 2 kmph

Ravi takes 3 hours to cover a certain distance upstream

Concept used:

Distance = Time × Speed

While going upstream, the speed of a boat and the flow of the river get added to calculate the effective speed. On the other hand, while going downstream, to take the effective speed, the difference between the speed of the boat and the flow of the river is considered.

Calculation:
Effective speed during the upstream journey = (14 - 2) kmph = 12kmph
Distance covered = 12 × 3 = 36 hours
Effective speed during the downstream journey = (14 + 2) kmph = 16kmph
So, time taken by Ravi to cover 36 km downstream = 36 ÷ 16 = 2.25 hours = 2 hours 15 minutes
Therefore Ravi will take 2 hours 15 minutes to cover the same distance downstream.

Q52. Answer: (b) 425

Production in 2015 & 2017 = (600 + 750) tonnes = 1350 tonnes
Sales in 2016 & 2018 = (525 + 400) tonnes = 925 tonnes
So, more = (1350 - 925) = 425 tonnes
Therefore 425 Tonnes is the production in 2015 and 2017 taken together than the sales in 2016 and 2018 taken together.

Q53. Answer: (d) 6 hours

Given:
Geeta can assemble a toy in 10 minutes.
Sudha can assemble the same toy in 15 minutes.
Concept used:
Entire work = Work done in each minute × Time taken (in minutes)
Calculation:
LCM (10,15) = 30
Let the entire work (making a toy) be the LCM of the time taken by Geeta & Sudha.
So, the entire work = 30 units
Geeta does in a minute = 30 ÷ 10 = 3 units of work
Sudha does in a minute = 30 ÷ 15 = 2 units of work
Time taken to finish the entire work together = 30 ÷ (3 + 2) = 6 minutes
So, time taken to make 60 toys together = 6 × 60 = 360 minutes = 6 hours
Therefore If they work together, they will take 6 hours to assemble 60 toys.

Q54. Answer: (d) $8a^3 - b^3 - 27c^3 - 18abc$

Shortcut Trick
Apply the standard algebraic identity: $(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx) = x^3 + y^3 + z^3 - 3xyz$.
Identify the terms: $x = 2a$, $y = -b$, and $z = -3c$.
Substitute into the result: $(2a)^3 + (-b)^3 + (-3c)^3 - 3(2a)(-b)(-3c)$.
Simplified result: $8a^3 - b^3 - 27c^3 - 18abc$.
Therefore The correct answer is $8a^3 - b^3 - 27c^3 - 18abc$.
Alternate Method
Given: The expression is $(2a - b - 3c)(4a^2 + b^2 + 9c^2 + 2ab + 6ac - 3bc)$.
Formula Used: $(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx) = x^3 + y^3 + z^3 - 3xyz$.
=> Let $x = 2a$, $y = -b$, and $z = -3c$.
=> Check the second bracket terms:
=> $x^2 = (2a)^2 = 4a^2$, $y^2 = (-b)^2 = b^2$, $z^2 = (-3c)^2 = 9c^2$.
=> $-xy = -(2a)(-b) = 2ab$, $-yz = -(-b)(-3c) = -3bc$, $-zx = -(-3c)(2a) = 6ac$.
=> The given expression perfectly matches the identity expansion.
=> Result = $(2a)^3 + (-b)^3 + (-3c)^3 - 3(2a)(-b)(-3c)$
=> Result = $8a^3 - b^3 - 27c^3 - 18abc$.
Therefore The correct answer is $8a^3 - b^3 - 27c^3 - 18abc$.
Additional Information
Sum of Cubes Identity
The expression $x^3 + y^3 + z^3 - 3xyz$ is equal to $(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$.
Special Case (Conditional Identity)
If the sum of variables $x + y + z = 0$, then the sum of their cubes $x^3 + y^3 + z^3$ is exactly equal to $3xyz$.
Square of a Trinomial

The square of three terms is given by $(x + y + z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$.

Q55. Answer: (c) 19/45

Given:

$3/5+22/5 \div [(7/8-3/4)\times 4 - 6\ 2/3 \div 4/3]\times 1/3$

Concept used:

Calculation:

$3/5+22/5 \div [(7/8-3/4)\times 4 - 6\ 2/3 \div 4/3]\times 1/3$

$\Rightarrow 3/5 + 12/5 \div [1/8 \times 4 - 20/3 \div 4/3] \times 1/3$

$\Rightarrow 3/5 + 12/5 \div [1/8 \times 4 - 5] \times 1/3$

$\Rightarrow 3/5 + 12/5 \div (-9/2) \times 1/3$

$\Rightarrow 3/5 - 8/15 \times 1/3$

$\Rightarrow 19/45$

Therefore The required value of $3/5+22/5 \div [(7/8-3/4)\times 4 - 6\ 2/3 \div 4/3]\times 1/3$ is 19/45.

Q56. Answer: (c) 81.8

The total production of green tea in 2016 and 2018 = (100 + 80) M = 180M

The total production of herbal tea in 2015 and 2017 = (100 + 120)M = 220M

% = 180/220 × 100% = 81.8%

Therefore The total production of green tea in 2016 and 2018 is 81.8% of the total production of herbal tea in 2015 and 2017.

Q57. Answer: (a) 20

Given:

Joseph bought two woolen jackets for Rs. 2,100 and Rs. 3,150, respectively.

By selling the first at a gain of k% and the second at a loss of k%.

The selling price of both is the same.

Concept used:

Selling price = Cost price (1 + profit percentage/100)

Selling price = Cost price (1 - loss percentage/100)

Calculation:

According to the question,

$2100 (1 + k/100) = 3150 (1 - k/100)$

$\Rightarrow (1 + k/100)/(1 - k/100) = 3/2$

$\Rightarrow (100 + k)/(100 - k) = 3/2$

$\Rightarrow 200 + 2k = 300 - 3k$

$\Rightarrow 5k = 100$

$\Rightarrow k = 20$

Therefore The value of k is 20.

Q58. Answer: (c) RA : AQ

Given:

Two chords PQ and RS of a circle meet at A when produced. AT is a tangent to the circle meeting it at T.

Concept used:

Here, PA & PC are two secants and PT is a tangent at point T on the circle.

So, we know,

PA × PB = PC × PD = (PT)2

Calculation:

Here, PQ, RS are secants and RT is a tangent.

So, we know,

PA × AQ = SA × RA

$\Rightarrow$ PA : SA = RA : QA

Therefore The ratio PA : SA is equal to RA : QA.

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Q59. Answer: (c) 12%

Given:

A sum of money lent at simple interest amounts to Rs. 9,920 after 2 years and to Rs. 12,800 after 5 years.

Concept used:

Simple Interest, SI = (P × R × T) ÷ 100

where

P = Principal amount

R = Rate of interest per year

T = Time in years

Calculation:

Let the Principal amount be P and rate of Interest be R%.

According to the question,

P + 2PR/100 = 9920 ....(1)

P + 5PR/100 = 12800....(2)

So, PR/100 = 960

Now,

P + 2PR/100 = 9920

=> P = 8000

PR/100 = 960

8000R = 96000

=> R = 96000/8000

=> R = 12%

Therefore The rate of interest is 12%.

Q60. Answer: (d) Rs. 32

Given:

20% reduction results to 6 kg more sugar.

Concept used:

Application of percentage

Calculation:

Let the previous price of the sugar be Rs. P for the certain amount R kg.

Now, previously (R + 6) kg could have been acquired at = 960 ÷ 0.8 = Rs. 1200

So, Rs. (1200 - 960) = Rs. 240 results to 6 kg.

Hence, previous price of sugar = 240 ÷ 6 = Rs. 40 per kg

So, at Rs. 960, One could get = 960 ÷ 40 = 24kg sugar

Now, recent price of sugar = 960 ÷ (24 + 6) = Rs. 32

Therefore The reduced rate of sugar is Rs. 32 per kg.

Shortcut Trick

	Fraction	OLD	NEW
Price	20% = -(1/5)	5	4
Quantity	25% = +(1/4)	4	5
Expenditure (E = P × Q)	Remains Unchanged	20	20

Quantity is increased in such way that the expenditure remains same.

Therefore If, Old Quantity = 4x, then New Quantity = 5x

So,

Increase in Quantity = 5x - 6x = x

According to Question,

=> x = 6kg.

=> Old Quantity = 4x = 4 × 6 = 24kg

=> New Quantity = 5x = 5 × 6 = 30kg

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Therefore New rate per kg = Rs. 960/30kg = Rs. 32/kg

Q61. Answer: (b) 1/64

Given:

a + b - c = 0

Calculation:

((b-c)²)/4bc×((c-a)²)/4ca×((a+b)²)/4ab?

b - c = -a, c - a = b, a + b = c

Put the value in the above equation

=> {(-a)²/4bc)} × (b²/4ca) × (c²/4ab)

=> (a²b²c²/64a2b2c2)

=> 1/64

Therefore The value of ((b-c)²)/4bc×((c-a)²)/4ca×((a+b)²)/4ab? is (1/64).

Q62. Answer: (a) -1

Given:

cosec2 θ (cos θ - 1)(1 + cos θ) = k

Concept used:

Cosec α = 1/Sin α

Sin² α + Cos² α = 1

(a + b)(a - b) = a² - b²

Calculation:

cosec2 θ (cos θ - 1)(1 + cos θ) = k

=> cosec2 θ (1 - cos θ)(1 + cos θ) = -k

=> cosec2 θ (1 - cos² θ) = -k

=> cosec2 θ × sin² θ = -k

=> 1 = -k

=> k = -1

Therefore The value of k is (-1).

Q63. Answer: (b) 46

Given:

D, E, and F are the feet of the perpendiculars from the vertices A, B, and C, respectively, of a triangle ABC.

angle BED and angle BFE (in degrees) are 24 and 110

Concept used:

The angle subtended by a chord of a circle at its centre is equal to the angle subtended by the corresponding (minor) arc at the centre.

The sum of all angles in a triangle is always 180°

Calculation:

Here we have to do construction:

Draw a circle of diameter AB which passes through D as angle ADB = 90°

Draw another circle of diameter BC which passes through E as angle BEC = 90°

Taking BC as the diameter, we draw a circle.

Here, angle BEC is a subtended angle on circumference from the diameter which is 90°.

Now, considering EC a chord, angle EBC = angle EFC = 20°

Now, taking AB as the diameter, we draw a circle.

Here, angle AEB is a subtended angle on circumference from the diameter which is 90°.

Now, considering BD a chord, angle BED = angle BAD = 24°

So, in ΔABD,

angle BAD + angle ADB + angle ABD = 180°

=> 24° + 90° + angle ABE + angle EBD = 180°

=> 24° + 90° + angle ABE + 20° = 180°

=> angle ABE = 46°

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=> angle EBF = 46°

Therefore The measure of angle EBF is 46°.

Q64. Answer: (d) 69 kg

Given:

The average weight of 3 persons A, B, and C is 60 kg.

When D joins the group, the average weight becomes 65 kg.

E whose weight is 3 kg less than that of D replaces A, the average weight of B, C, D, and E becomes 67 kg.

Concept used:

Total = Average × Number of entities

Calculation:

So, the weight of D = (65 × 4) - (60 × 3) = 80kg

Then, the weight of E = 80 - 3 = 77kg

According to the question,

77 + (60 × 3 - A) + 80 = 67 × 4

=> A = 69

Therefore The weight of A is 69kg.

Q65. Answer: (c) 3

Given:

$(\tan^2 60° + \text{cosec } 30° \sin 90° + 3 \sec^2 30°)/(4 \sin^2 45° + \sec^2 60° - \cot^2 30° - 5 \cos^2 90°)$

Concept used:

Calculation:

$(\tan^2 60° + \text{cosec } 30° \sin 90° + 3 \sec^2 30°)/(4 \sin^2 45° + \sec^2 60° - \cot^2 30° - 5 \cos^2 90°)$

=> $(3 + 2 \times 1 + 3 \times (4/3))/(4 \times (1/2) + 4 - 3 - 5 \times 0)$

=> 9/3

=> 3

Therefore The required value of $(\tan^2 60° + \text{cosec } 30° \sin 90° + 3 \sec^2 30°)/(4 \sin^2 45° + \sec^2 60° - \cot^2 30° - 5 \cos^2 90°)$ is 3.

Q66. Answer: (a) 33.33% reduction

Percentage change in production from 2015 to 2016 = (628 - 600)/600 × 100% = 4.67%

Percentage change in production from 2016 to 2017 = (750 - 628)/628 × 100% = 19.42%

Percentage change in production from 2017 to 2018 = (750 - 500)/750 × 100% = 33.33%

Percentage change in production from 2018 to 2019 = (570 - 500)/500 × 100% = 14%

Therefore 33.33% is the percentage of maximum increase or reduction in the production of the company in comparison to the previous year.

Q67. Answer: (d) 84°

Given:

PA and PB are tangents drawn to a circle with centre O from an external point P.

A and B are points on the circle

angle OBA = 42°

Concept used:

The radius of a circle is perpendicular to the tangent line through its endpoint on the circle's circumference.

The sum of all angles of a triangle is 180°.

Calculation:

Here, OB and OA are the radii of the circle.

So, ΔAOB is an isosceles triangle.

Hence, angle OBA = angle OAB = 42°

So, angle AOB = 180° - (42° × 2) = 96°

Here, angle AOB & angle PAB are complementary angles.

Now, angle PAB = 180° - angle AOB = 180° - 96° = 84°

Therefore The measure of angle APB is 84°.

Q68. Answer: (b) 15

Given:

A pair of jeans marked at Rs. 960 is offered in a departmental store for Rs. 816.

Concept used:

Discount = Marked Price - Selling Price

Calculation:

Discount given = (960 - 816) = 144

So, discount % = 144/960 × 100% = 15%

Therefore The percentage of discount given by the shopkeeper is 15%.

Q69. Answer: (d) 15 lakh bottles

The average production of flavour A in 2012, 2013 and 2014 = (50 + 45 + 75) ÷ 3 = (170/3) lakh bottles

The average production of flavour C in 2012, 2013 and 2014 = (65 + 70 + 80) ÷ 3 = (215/3) lakh bottles

So, the difference = (215 - 170)/3 = 15 lakh bottles

Therefore The difference between the average production of flavour A in 2012, 2013 and 2014 and the average production of flavour C in 2012, 2013 and 2014 is 15 lakh bottles.

Q70. Answer: (d) 2.4 cm

Given:

In ΔPQR, points T and S are on PQ and PR, respectively, such that TS is parallel to QR.

TQ = 7.2 cm, PS = 1.8 cm and SR = 5.4 cm

Concept used:

Similarity of two triangles

Calculation:

Since TS || QR, ΔPTS & ΔPQR are similar triangles.

Then,

PT/TQ = PS/SR

=> PT = (PS/SR) × TQ

=> PT = (1.8/5.4) × 7.2

=> PT = 2.4

Therefore The length of PT is 2.4 cm.

Q71. Answer: (b) 21 : 5

Given:

a : b = 5 : 7, b : c = 8 : 15

Concept used:

Ratio proportion

Calculation:

a : b = 5 : 7 = 40 : 56

b : c = 8 : 15 = 56 : 105

So, a : b : c = 40 : 56 : 105

Let K be the common ratio.

Then,

a = 40K

b = 56K

c = 105K

So,

8c : 5a

=> 8 × 105K : 5 × 40K

=> 21 : 5

Therefore The value of 8c : 5a is 21 : 5.

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Q72. Answer: (c) 6

Shortcut Trick

For a number to be divisible by 6, it must be divisible by both 2 and 3.

Divisibility by 2: The last digit k must be even (0, 2, 4, 6, 8).

Divisibility by 3: Sum of digits (3 + 4 + k + 5 + 6 + k) = 18 + 2k must be divisible by 3.

Check largest even k = 8: 18 + 2(8) = 34 (Not divisible by 3).

Check next largest even k = 6: 18 + 2(6) = 30 (Divisible by 3).

Therefore The correct answer is 6.

Alternate Method

Given: The number is 34k56k and it is divisible by 6.

Formula Used: Divisibility rule of 6 = Divisibility by 2 × Divisibility by 3.

=> For divisibility by 2, k in {0, 2, 4, 6, 8}.

=> For divisibility by 3, Sum = 3 + 4 + k + 5 + 6 + k = 18 + 2k.

=> Since 18 is already divisible by 3, 2k must be divisible by 3.

=> Possible values for k to make 2k divisible by 3 are {0, 3, 6, 9}.

=> Common values satisfying both conditions: k in {0, 6}.

=> The largest value of k is 6.

Therefore The correct answer is 6.

Additional Information

Divisibility by 3

A number is divisible by 3 if the sum of its digits is divisible by 3.

Divisibility by 4

A number is divisible by 4 if the last two digits are divisible by 4 or are both zero.

Divisibility by 9

A number is divisible by 9 if the sum of its digits is divisible by 9.

Q73. Answer: (b) 100

Given:

x - y = 4

xy = 3

Concept used:

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

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

Calculation:

x - y = 4

=> $x^2 - 2xy + y^2 = 16$

=> x2 + xy + y2 = 16 + (3 × 3)

=> x2 + xy + y2 = 25

=> (x - y) (x2 + xy + y2) = 25 × 4

=> (x - y) (x2 + xy + y2) = 100

=> $x^3 - y^3 = 100$

Therefore The value of x3 - y3 is 100.

Shortcut Trick=> If, x - y = k, then $x^3 - y^3 = k^3 + 3k \times xy$.

Therefore $x^3 - y^3 = (4)^3 + 3 \times 4 \times 3 = 64 + 36 = 100$.

Q74. Answer: (c) 25/12

Given:

In a triangle ABC, right-angled at C, if sec A =13/5,

Concept used:

Cosθ = 1/Secθ

Cosθ = Base/Hypotenuse

Sinθ = Perpendicular/Hypotenuse

Pythagorean triplet
Calculation:
Here,
SecA = 13/5
=> AB/AC = 13/5
So, let AB = 13k and AC = 5k, considering k as their common ratio.
So, BC = √((13k)² - (5k)²) = 12k
Now,
SinA = BC/AB = 12/13
Cos B = 12/13
So,
(1+ sin A)/(cos B).
=> (1 + 12/13)/(12/13)
=> 25/12
Therefore The value of (1+ sin A)/(cos B) is 25/12.

Q75. Answer: (b) 2092 m²

Shortcut Trick
Total area of the park = 60 × 40 = 2400 m²
Area of two flower beds = 2 × (22/7) × 7 × 7 = 308 m²
Remaining area = 2400 − 308 = 2092 m²
Therefore The correct answer is 2092 m².
Alternate Method
Given:
Length of the park (L) = 60 m
Breadth of the park (B) = 40 m
Radius of each flower bed (r) = 7 m
Formula Used:
Area of rectangle = Length × Breadth
Area of circle = πr²
Remaining Area = Total Area − (2 × Area of circular bed)
60 m 40 m r = 7 m r = 7 m Remaining Area = Park − 2 × Circle
Calculations:
=> Area of rectangular park = 60 × 40 = 2400 m²
=> Area of one circular flower bed = (22/7) × 7 × 7
=> Area of one circular flower bed = 22 × 7 = 154 m²
=> Total area of two circular beds = 2 × 154 = 308 m²
=> Area of remaining portion = 2400 − 308 = 2092 m²
Therefore The correct answer is 2092 m².
Additional Information
Area and Perimeter of a Rectangle
Area = Length × Breadth and Perimeter = 2 × (Length + Breadth).
Area and Circumference of a Circle
Area = πr² and Circumference = 2πr, where r is the radius.
Diagonal of a Rectangle
Diagonal = √(L² + B²), derived from the Pythagoras theorem.

Q76. Answer: (b) Gelatin

The correct answer is Gelatin.
Key Points
• Fining is a winemaking process that aims to clarify and stabilize the wine.
• A fining agent is a range of special materials added to the juice that enables the process of fining.

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• Because of fining, the wine is less likely to become hazy or cloudy after bottling and therefore more visually appealing.
• Fining also removes hydrogen sulfide and bitter flavors.
• The most common time a fining agent is added to wine is right after the fermentation has ended or a few days before bottling.
• Some common Fining Agents are-
• Gelatine
• Isinglass
• Egg white (egg albumen)
• Casein
• Skim milk
• Bentonite
• Carbon

Q77. Answer: (d) Vitamin A

The correct answer is Vitamin A.

Key Points

• Night blindness is the inability to see well at night or in poor lighting conditions.
• Night blindness is also called nyctalopia.
• Night blindness is often caused by Vitamin A deficiency.
• Night blindness is also caused by nearsightedness or cataracts.
• Foods that provide Vitamin A are carrots, sweet potatoes, eggs, milk, milk products, etc.

Additional Information

Vitamin Deficiency	Disease Caused
Vitamin B1	Beri-beri
Vitamin B2	Retarded growth, Skin related problems
Vitamin B12	Anemia, muscle and nerve-related problems
Vitamin C	Scurvy
Vitamin D	Rickets
Vitamin K	Inability of Blood-Clotting

Q78. Answer: (b) 68^(th)

The correct answer is 68th.

Key Points

• India was ranked at 68th position in the World Economic Forum’s Global Competitiveness Index, 2019.
• In the overall competitiveness ranking, Singapore replaced the US to take the first position.
• In South Asia, India is followed by Sri Lanka (84), Bangladesh (105), Nepal (108), and Pakistan (110).
• Countries like Colombia (57), Azerbaijan (58), South Africa (60), and Turkey (61) surpassed India in this year’s survey.

Additional Information

• India's rank in important indices (2021)-

Global Health Security Index	66th
Global Food Security Index	71st
Global Hunger Index	101st
Global Innovation Index	46th
World Press Freedom Index	142th
International Intellectual Property Index	40th

Q79. Answer: (b) Amritsar

The correct answer is Amritsar.

Key Points

• Harmandir Sahib (Golden Temple) is situated in Amritsar, Punjab.

• The word Harmandir literally means God's House.

• It is an important place of worship for Sikhism.

Additional Information

• Some important religious places-

Gurudwara Kartarpur Sahib	Pakistan
Meenakshi Amman Temple	Madurai, Tamil Nadu
Haji Ali Dargah	Mumbai
Lingaraja Temple	Bhubaneshwar, Odisha
Padmanabhaswamy Temple	Thiruvananthapuram, Kerala
Kashi Vishwanath Temple	Varanasi, Uttar Pradesh
Gurudwara Bangla Sahib	New Delhi

Q80. Answer: (d) idiophones

The correct answer is idiophones.

Key Points

• Kartal (as shown in the image below) is an ancient clapper instrument, with wooden or plastic handles, mainly used in devotional or folk songs.

• This wooden clapper is a Ghana Vadya which has discs or plates that produce a clinking sound when clapped together.

• It comes under the category of Idiophones.

• Idiophones are instruments whose own substance vibrates to produce sound.

• Some examples of idiophones are bells, clappers, rattles, etc.

Additional Information

• Membranophones - Membranophones emit sound by the vibration of a stretched membrane. For example, drums.

• Electrophones - An electronic musical instrument or electrophone is a musical instrument that produces sound using electronic circuitry. For example, electric guitar.

• Chordophones - A chordophone is a class of musical instruments in which a stretched, vibrating string produces the initial sound. For example, guitar, sitar, etc.

Q81. Answer: (c) two

The correct answer is two.

Key Points

• Vidhan Parishad or the State Legislative Council is the upper house in those states that have a bicameral legislature.

• The tenure of Members of Legislative Council (MLC) is six years. One-third of the members of the State Legislative Council retire after every two years.

• This arrangement is similar to that of the Rajya Sabha, the upper house of the Parliament of India.

Additional Information

• The establishment of the State Legislative Council is defined in Article 169 of the Constitution of India.

• As of 2022, 6 out of 28 states have a State Legislative Council. These are Andhra Pradesh, Karnataka, Telangana, Maharashtra, Bihar, and Uttar Pradesh.

• To become a member of a State Legislative Council (MLC), a person must be a citizen of India, and at least 30 years old.

Q82. Answer: (a) .JPEG

The correct answer is .JPEG.

Key Points

• Microsoft Paint is a simple graphics editor that has been included with all versions of Microsoft Windows.

• The file format used by MS-Paint to open and save a file is .JPEG.

• JPEG stands for Joint Photographic Experts Group.

• It is the most commonly used format of photos.

• Other formats are PNG (Portable Network Graphics), GIF (Graphics Interchange Format), TIFF (Tagged Image File), PSD (Photoshop Document), etc.

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Additional Information

• PPT - This file format is created by MS-Powerpoint.

• DOC - This is a word processing document format created by Microsoft Word

• XLS - This is a spreadsheet file created by Microsoft Excel.

Q83. Answer: (a) Breakdancing

The correct answer is Breakdancing.

Key Points

• Breakdancing is set to make its debut at the 2024 Paris Olympic Games.

• Breakdancing made its debut at the 2024 Paris Olympics, with B-girl Ami of Japan winning the inaugural breaking gold medal.

• Ami, whose legal name is Ami Yuasa, defeated Lithuania's B-girl Nicka (Dominika Banevič) in the gold medal battle.

• Before this, It was introduced at the 2018 Youth Olympics in Buenos Aires.

• Breakdancing, popularly known as breaking, is a form of dance sport that blends urban dance with remarkable athleticism.

• Breakdancing started from the streets of New York in the 1970s.

• However, unlike its beginning on the streets, it has evolved into a proper dance sport, with a fixed set of rules that make for fair competition.

Additional Information

• Cricket - Cricket has been a sport at the modern Summer Olympic Games. The only time it has been played to date was at the 1900 Summer Olympics with only a men's contest, and Great Britain won the gold medal.

• Darts - Darts or dart-throwing is a competitive sport in which two or more players bare-handedly throw small sharp-pointed missiles known as darts at a round target known as a dartboard. It has never been a part of the Olympic games.

• Parkour Race - It is a casual video game where you compete in exciting races between very agile characters that jump over walls and obstacles and finish the race.

Q84. Answer: (b) Speaker

The correct answer is Speaker.

Key Points

• The speaker of the Lok Sabha/legislative assembly vacates the office immediately before the first meeting of the newly elected house.

• After a general election and the formation of a newly elected house, a pro-tem or interim speaker is appointed.

Additional Information

• Pro-tem is a Latin phrase that means “for the time being”.

• President/governor appoints the pro-tem speaker to preside over the sittings of the newly elected house.

• Usually, the senior-most member of the house is made the pro-tem speaker.

• The first meeting after the election when the Speaker and the Deputy Speaker are selected by members of the Parliament is held under the pro tem Speaker.

• The pro tem Speaker also administers the oath of office to the newly elected MPs.

• On the election of a new Speaker, the office of the pro tem speaker ceases to exist.

• The Vice President holds office for five years. The Vice President can be re-elected any number of times. However, the office may be terminated earlier by death, resignation, or removal. The Constitution does not provide a mechanism of succession to the office of Vice President in the event of an extraordinary vacancy, apart from re-election. However, the Deputy Chairman of the Rajya Sabha can perform the Vice President's duties as the Chairman of the Rajya Sabha in such an event.

Q85. Answer: (b) Ladakh

The correct answer is Ladakh.

Key Points

• Tsering Landol is an Indian gynecologist and one of the pioneers of women's health.

• She hails from the Union Territory of Ladakh, India.

• The Government of India awarded her the fourth highest civilian honour of the Padma Shri, in 2006, and Padma Bhusan in 2020 for her contributions to Indian medicine, making her one of the few woman recipients of the award from Jammu and Kashmir and the first Ladakhi woman doctor to receive the honour.

• She served at the Sonam Norboo Memorial Government Hospital, Leh, and is also associated with other educational institutions.

Additional Information

• Important Padma Bhushan 2020 recipients-

• Anand Mahindra - Trade & Industry- Maharashtra

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• Manohar Parrikar - Public Affairs- Goa
• PV Sindhu- Sports - Telangana
• Venu Srinivasan - Trade & Industry- Tamil Nadu
• Important Padma Bhushan 2022 recipients-
• Satya Nadella (executive chairman and CEO of Microsoft) - Trade and Industry- United States of America
• Sundar Pichai (CEO of Alphabet Inc. and its subsidiary Google) - Trade and Industry- United States of America
• Natarajan Chandrasekaran (chairman of Tata Sons) - Trade and Industry- Maharashtra
• Cyrus S. Poonawalla (chairman and managing director of the Cyrus Poonawalla Group, which includes the Serum Institute of India, an Indian biotech company that is the largest vaccine manufacturer in the world) - Trade and Industry- Maharashtra
• Krishna Ella (Chairman & Managing Director of Bharat Biotech International Limited)- Trade and Industry- Telangana

Q86. Answer: (a) Norway

The correct answer is Norway.

Key Points

• Norway ranked first out of 180 countries in the World Press Freedom index 2020.
• India's rank in the index is 142.
• South Asia in generally featured poorly on the index, with Pakistan at 145, and Bangladesh at 151.
• China at 177th position is just three places above North Korea, which is at 180th.
• The World Press Freedom Index has been released every year by Reporters Sans Frontieres (RSF) or Reporters Without Borders since 2002.
• RSF, based in Paris, is an independent NGO with consultative status with the United Nations, UNESCO, the Council of Europe, and the International Organization of the Francophonie (OIF).

Additional Information

• Current World Press Freedom index (2021)-
• Top spot - Norway
• India's Rank - 142
• China's Rank - 177
• Pakistan's Rank - 145

Q87. Answer: (a) Maulana Abul Kalam Azad

The correct answer is Maulana Abul Kalam Azad.

Key Points

• Abul Kalam Azad presided over the Special Session of the Indian National Congress, held in Delhi in 1923.
• In 1923, at an age of 35, he became the youngest person to serve as the President of the Indian National Congress.
• He was also elected as the president of the 1940 session in Ramgarh.
• Commonly regarded as Maulana Azad, the leader was conferred Bharat Ratna (posthumously) in 1992.
• He was a revolutionary poet, journalist, activist, and freedom fighter.
• He is credited for the formation of the University Grants Commission and the Indian Institutes of Technology.

Additional Information

• Ram Manohar Lohia - He was an activist in the Indian independence movement and a socialist political leader. Lohia was one of the founders of the Congress Socialist Party.
• Mahadev Govind Ranade - popularly referred to as Justice Ranade, was an Indian scholar, social reformer, judge, and author. He was one of the founding members of the Indian National Congress party.
• Bal Gangadhar Tilak - He was popularly called Lokmanya. He was an Indian nationalist, teacher, and independence activist. The British colonial authorities called him "The father of the Indian unrest." Mahatma Gandhi called him "The Maker of Modern India". He is known for his quote in Marathi: "Swaraj is my birthright and I shall have it!".

Q88. Answer: (b) 69 kg

The correct answer is 69 kg.

Key Points

• Lovlina Borgohain is an Indian boxer who plays in the 69Kg category.
• She is 23 years old and hails from the Golaghat district of Assam.
• She won a bronze medal in the women's welterweight category at Tokyo Olympics 2021.
• With this win, she became the third boxer to win a medal at the Olympics for India after Vijender Singh and MC Mary Kom's

bronze at the 2008 and 2012 Olympics respectively.

Additional Information

• Names of famous Indian Men's Boxers-

• Dingko Singh

• Shiva Thapa

• Devendro Singh

• Amit Panghal

• Names of famous Indian Women's Boxers-

• Mary Kom

• Simranjit Kaur

• Pooja Rani

Q89. Answer: (c) Odisha

The correct answer is Odisha.

Key Points

• Chromite is the single commercially viable ore of chromium which is chemically known as iron chromium oxide.

• More than 93 percent of the Chromite resources in India are found in Sukinda valley in Cuttack and Jajapur in Odisha.

• Minor deposits are spread over Manipur, Nagaland, Karnataka, Jharkhand, Maharashtra, Tamil Nadu, and Andhra Pradesh.

• It is a steel-grey, lustrous, hard, and brittle metal which takes a high polish, resists tarnishing, and has a high melting point.

• The properties of chromium that make it most versatile and indispensable are its resistance to corrosion, oxidation, and wear.

• Chromium is an important alloying metal. It is used in the manufacture of alloys along with other metals, such as nickel, cobalt, copper, etc.

• It is also used in many other metallurgical, refractories, and chemical industries.

Q90. Answer: (d) Pradhan Mantri Krishi Sinchayee Yojana (PMKSY)

The correct answer is Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).

Key Points

• Per Drop More Crop is a key component of ‘Pradhan Mantri Krishi Sinchayee Yojana (PMKSY).

• To enhance the adoption of precision irrigation and other water-saving technologies, Per Drop More Crop, has been adopted.

• PMKSY is a Centrally Sponsored Scheme on Micro Irrigation (CSS), first launched in January 2006.

• Centre- States funding ratio will be 60:40 percent and in the case of the north-eastern region and hilly states, it will be 90:10.

• The scheme is being implemented by the Department of Agriculture, Cooperation & Farmers Welfare (DAC&FW) under the Ministry of Agriculture and Farmers' Welfare.

Additional Information

• Pradhan Mantri MUDRA Yojana (PMMY) - Pradhan Mantri MUDRA Yojana (PMMY) is a scheme launched by the Hon’ble Prime Minister on April 8, 2015, for providing loans up to 10 lakh to the non-corporate, non-farm small/micro-enterprises. These loans are given by Commercial Banks, RRBs, Small Finance Banks, MFIs, and NBFCs.

• Pradhan Mantri Awaas Yojana Gramin (PMAY-G) - It is a social welfare program, created by the Indian Government, to provide housing for the rural poor in India. The central government came up with the vision to fulfill the 'Housing for All' scheme by the year 2022.

• Pradhan Mantri Jan-Dhan Yojana (PMJDY) - It is a financial inclusion program of the Government of India open to Indian citizens, that aims to expand affordable access to financial services such as bank accounts, remittances, credit, insurance, and pensions. It was launched in 2014.

Q91. Answer: (a) Word Processor

The correct answer is Word Processor.

Key Points

• A word processor (WP) is a computer program or application software that provides for input, editing, formatting, and output of text, often with some additional features.

• An application program or software is a computer program designed to carry out a specific task other than one relating to the operation of the computer itself.

• Some examples of application software are media players, accounting software, spreadsheet software, etc.

Additional Information

• Java - Java is a popular programming language. Java is used to develop mobile apps, web apps, desktop apps, games, and much more.

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• Visual Basic - It is an object-oriented programming language developed and owned by Microsoft. It is used to create macros to automate repetitive word- and data-processing functions, and generate custom forms, graphs, and reports.

• RAM - Random Access Memory (RAM) is a general-purpose memory that usually stores the user data in a program. RAM is volatile, which means it cannot retain data in the absence of power.

Q92. Answer: (c) thermodynamics

The correct answer is thermodynamics.

Key Points

• Heat is the form of energy that is transferred between two substances at different temperatures.

• The direction of energy flow is from the substance of higher temperature to the substance of lower temperature.

• Heat is measured in units of energy, usually calories or joules.

• Thermodynamics is the study of the relations between heat, work, temperature, and energy.

• The laws of thermodynamics describe how the energy in a system changes and whether the system can perform useful work on its surroundings.

Additional Information

• Magnet - A magnet is a material or object that produces a magnetic field that pulls on other ferromagnetic materials, such as iron, steel, nickel, cobalt, etc.

• Friction is a force between two surfaces that are sliding, or trying to slide, across each other.

• Gravity is the force by which a planet or other body draws objects toward its center. The force of gravity keeps all of the planets in orbit around the sun.

Q93. Answer: (b) Portuguese

The correct answer is Portuguese.

Key Points

• The Battle of Swally, also known as the Battle of Suvali, took place on 29 to 30 November 1612.

• It was a naval battle that was fought off the coast of Suvali a village near Surat city, Gujarat, India.

• It was a victory for the British East India Company over the Portuguese.

Additional Information

• Important wars of Britain with other forces in India-

• British and Dutch War - The Battle of Chinsurah (also known as the Battle of Hoogly) took place near Chinsurah, India on 25 November 1759 between a force of British troops and a force of the Dutch East India Company which had been invited by the Nawab of Bengal Mir Jafar to help him expel the British and establish themselves as the leading commercial company in Bengal.

• British and French Wars - The Carnatic Wars were a series of military conflicts in the middle of the 18th century between the French East India Company and the British East India Company. They were mainly fought within the territories of Mughal India.

Q94. Answer: (a) 26

The correct answer is 26.

Key Points

• India won a total of 26 gold medals at Commonwealth Games 2018

• With 26 Gold medals, 20 Silver medals and 20 Bronze medals, and a total of 66 medals, India finished 3rd for the tournament.

• The 2018 Commonwealth Games was hosted by Australia. They were held in Gold Coast, Queensland.

• The official mascot for the 2018 Commonwealth Games is a koala named Borobi.

Additional Information

• Some notable winners at the 2018 Commonwealth Games-

• Gold Medal-

• Neeraj Chopra - Javeline Throw

• Gaurav Solanki - Boxing

• M.C. Mary Kom - Boxing

• Silver Medal-

• Amit Panghal - Boxing

• Pooja Dhanda - Wrestling

• Seema Punia - Women's Discus Throw

• Bronze Medal-

• Manika Batra and G. Sathiyan - Table Tennis mixed doubles

• Ashwini Ponnappa and Sikki Reddy- Women's doubles badminton
• Sakshi Malik - Wrestling

Q95. Answer: (d) China

The correct answer is China.

Key Points

• The LAC (Line of Actual Control) is the demarcation that separates Indian-controlled territory from Chinese-controlled territory.
• LAC is the demarcation that was formed after the 1962 Sino-Indian War and is part of the Sino-Indian border dispute.
• The term is said to have been used by Zhou Enlai in a 1959 letter to Jawaharlal Nehru.

Additional Information

• Important borders with India and their names-

India and Pakistan	Radcliffe Line
India and Srilanka	Rama Setu (Adam's Bridge), Palk Strait

Q96. Answer: (d) Anil Kumble

The correct answer is Anil Kumble.

Key Points

• Former Indian leg spinner and former coach of the Indian Team, Anil Kumble is the highest wicket-taker in test cricket.
• He has taken 619 wickets in 132 matches with a strike rate of 66.
• The leading wicket-taker of all-time in men's international tests is Sri Lanka's Muttiah Muralitharan.
• This spin bowler took 800 wickets in a Test career of 133 matches from 1992 to 2010.

Additional Information

• Top five test wicket-takers from India-(as of March 2022)

Name	Wickets	Matches
A Kumble	619	132
R Ashwin	435	85
Kapil Dev	434	131
Harbhajan Singh	417	103
Ishant Sharma	311	105

Q97. Answer: (d) Telangana

The correct answer is Telangana.

Key Points

• Telangana was the highest contributor to the Food Corporation of India (FCI)’s total paddy procurement across the country till May 2020.
• It contributed 63 percent of FCI’s total paddy procurement across the country.
• Telangana supplied over 52.23 lakh tonnes of paddy against the nationwide procurement of 83.01 lakh tonnes.
• Andhra Pradesh contributed only 23.04 lakh tonnes in the same season.

Additional Information

• Paddy procurement in 2021-2022 (top 3 states)-
• Punjab - 186.86 lakh tonnes
• Chhattisgarh - 92.01 lakh tonnes
• Telangana - 70.22 lakh tonnes.

Q98. Answer: (d) Dilip Kumar

The correct answer is Dilip Kumar.

Key Points

• The Substance and the Shadow is the autobiography of Dilip Kumar.
• It was released in 2014 at an event in Mumbai.
• The book is a first-person account of the 91-year-old Dileep Kumar’s ups and downs in his much-talked-about relationships,

marriage, and movies.

• His real name was Mohammed Yusuf Khan.

• Referred to as the "Tragedy King" for his portrayal of serious roles and retrospectively as "The First Khan" of Bollywood, he has been described as one of the most successful film stars in the industry and is credited with bringing a distinct form of method acting to the cinema.

• Kumar holds the record for most wins for the Filmfare Award for Best Actor (eight, which was later equalled by Shah Rukh Khan) and was also the inaugural recipient of the award, he has won 3 Filmfare awards consecutively (which was later equalled by Abhishek Bachchan).

Additional Information

• Biographies of other famous actors-

• **Raj Kapoor**	• **Raj Kapoor: The One and Only Showman**
• Kishore Kumar	• Kishore Kumar: The Definitive Biography
• Rajesh Khanna	• Rajesh Khanna: The Untold Story of India's First Superstar

Q99. Answer: (a) 6

The correct answer is 6.

Key Points

• STARS project was launched by the Government of India and the World Bank in 2020.

• The project seeks to cover 6 states- Himachal Pradesh, Rajasthan, Maharashtra, Madhya Pradesh, Kerala, and Odisha.

• STARS stands for Strengthening Teaching-Learning and Results for States.

• The STARS project is implemented as a new Centrally Sponsored Scheme under the Department of School Education and Literacy, Ministry of Education (MoE).

• These aims and objectives are aligned with the objectives of National Education Policy (NEP) 2020 of Quality-Based Learning Outcomes. Some of these are-

• Strengthening the government-managed school education system that primarily caters to the educational needs of girls and students from marginalized groups.

• Focus on initiatives of PM e-Vidya, Foundational Literacy, and Numeracy Mission and National Curricular and Pedagogical Framework for Early Childhood Care and Education as part of the Atmanirbhar Bharat Abhiyan.

Q100. Answer: (c) 6%

The correct answer is 6.

Key Points

• The National Education Policy 2020 has set the target to increase public investment in the education sector to reach 6 percent of Gross Domestic Product (GDP) at the earliest.

• After almost three decades, the government is ready to transform the country's education system by making some impactful suggestions.

• While the National Education Policy 2020 (NEP 2020) aims at making India a global knowledge superpower by providing high-quality education to all.

• The policy focuses on almost doubling the Gross Enrolment Ratio (GER) in higher education, including vocational education, from 26.3 percent to 50 percent by 2035.

• Currently, the expenditure on education by centre and states as a proportion of GDP is 3.1 percent in 2019/20 (budget estimates) and has inched up by a meagre 30 basis points in the past six years.

Additional Information

• Gross domestic product (GDP) is the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period.

• As a broad measure of overall domestic production, it functions as a comprehensive scorecard of a given country's economic health.

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