SSC CHSL 2019 Official Paper 34(Held On: 26 Oct, 2020 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the word which means the same as the group of words given.

A remedy for all diseases

(a) Nectar
(b) Tablet
(c) Panacea
(d) Syrup

Q2. Select the most appropriate ANTONYM of the given word.

ASCEND

(a) Decent
(b) Rise
(c) Descend
(d) Climb

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

Enunciate

(a) Articulate
(b) Engage
(c) Confine
(d) Create

Q4. Select the wrongly spelt word.

(a) Professor
(b) Profesional
(c) Profuse
(d) Protrude

Directions

In the following passage, some words have been deleted. Fill in blanks with the alternatives given and select the most appropriate option for each blank.

Trees help man in three ways, by supplying wood etc., by providing shade and by helping to resist drought and flood, of (1)____ the last is the most important. Man, (2)__, has brought on his own ruin, by mass deforestation. History shows that great empires built on depletion of forest reserves, have toppled being unable to cope (3)__ floods and food- shortage. Though the Government can make laws (4)__ denudation of forests, it is difficult to prevent it unless people are educated enough to realize its (5)____consequences.

Q5. Select the most appropriate option for blank no. 5

(a) large
(b) grave
(c) small
(d) big

Q6. Select the most appropriate option for blank no. 4

(a) have prohibited
(b) prohibiting
(c) prohibits
(d) prohibited

Q7. Select the most appropriate option for blank no. 3

(a) with
(b) by
(c) of
(d) in

Q8. Select the most appropriate option for blank no. 2

(a) however
(b) whenever
(c) whoever
(d) wherever

Q9. Select the most appropriate option for blank no. 1.

(a) whose
(b) which
(c) what
(d) whom

Q10. Select the most appropriate word to fill in the blank.

Janki burnt her boats with her previous supervisor by _____ him in public.

(a) applauding
(b) appreciating
(c) flaunting
(d) criticizing

Q11. Directions: Each of the following questions has underlined idioms/phrases. Each sentence is followed by four options. Choose the option that best describes the meaning of the underlined idiom/phrase.

She declared that it was the last straw and fled.

(a) it was the last time she would use a straw
(b) the situation had become unbearable
(c) the situation was improving
(d) it was last time she would hold a straw

Q12. Select the most appropriate word to fill in the blank.

The sales team _____ the engineers for the organization’s failure to bag the mega deal.

(a) appreciated
(b) praised
(c) liked
(d) blamed

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Q13. Direction: Select the word which means the same as the group of words given.

The life history of a person written by himself.

(a) Essay
(b) Biography
(c) Travelogue
(d) Autobiography

Q14. Select the correct passive form of the given sentence?

Who killed Ravana?

(a) By whom Ravana was killed?
(b) Ravana was killed by whom?
(c) By whom was Ravana killed?
(d) Ravana is killed by whom?

Q15. In the sentence identify the segment which contains a grammatical error.

Samurai Jack drawn his sword to exact revenge on his superiors.

(a) on his superiors
(b) to exact revenge
(c) his sword to
(d) Samurai Jack drawn

Q16. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. One of the twins was driving better than the other.
B. Mahesh kept comparing them every day.
C. After two months of driving daily, finally both the twins were at par.
D. Mahesh was teaching the twins how to drive.

(a) ABCD
(b) CDAB
(c) DCBA
(d) DABC

Q17. Select the wrongly spelt word.

(a) Flevor
(b) Floor
(c) Flour
(d) Flower

Q18. Select the most appropriate meaning of the given idiom.

Upset someone’s applecart

(a) Spoiling the apples in someone's cart
(b) Making someone angry by ruining business
(c) Upsetting someone by dropping the apples
(d) Doing something that fails someone’s plan

Q19. Select the most appropriate ANTONYM of the given word.

Harsh

(a) Gentle
(b) Bitter
(c) Tough
(d) Grave

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Q20. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

The director wanted Aziz to play the role of the doctor as well also that of the apprentice.

(a) as well as
(b) as well
(c) No improvement.
(d) and also of

Q21. Select the correct indirect form of the given sentence.

Gary said, "I have finally cleared my exams with distinction!"

(a) Gary said that he has finally cleared his exams with distinction.
(b) Gary exclaimed that he had finally cleared his exams with distinction.
(c) Gary exclaimed that he cleared his exams with distinction.
(d) Gary told that he have cleared his exams with distinction.

Q22. Direction: Select the most appropriate synonym for the given word.

ASSEMBLE

(a) Disband
(b) Detach
(c) Amass
(d) Address

Q23. Select the most appropriate option to substitute the underlined segment in the given sentence.

All the employees of the nationalized banks are in strike.

(a) with
(b) by
(c) for
(d) on

Q24. In the sentence identify the segment which contains a grammatical error.

Queen Elizabeth got marrying to Philip, former Prince of Greece and Denmark.

(a) marrying to Philip
(b) former Prince of
(c) Queen Elizabeth got
(d) Greece and Denmark

Q25. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. He commanded that Birbal should leave his kingdom.

B. Birbal left, and started working on a farm in an unknown village.

C. Once upon a time, Akbar the great, became very angry with his minister, Birbal.

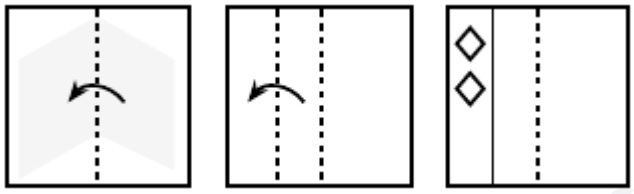
D. As months passed, Akbar started to miss his favourite minister.

(a) CABD
(b) DCBA
(c) DCAB
(d) ABCD

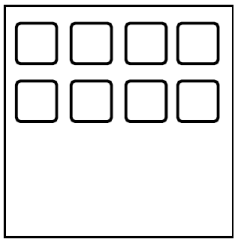
GENERAL INTELLIGENCE

Q26. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded ?

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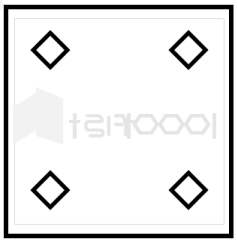
(a)



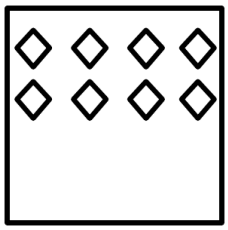
(b)



(c)



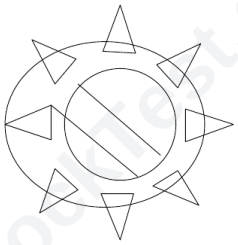
(d)



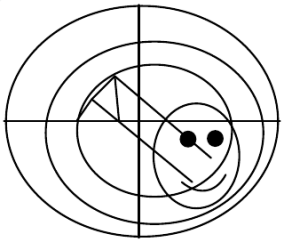
Q27. Select the option in which figure given below is embedded. (Rotation is not allowed).



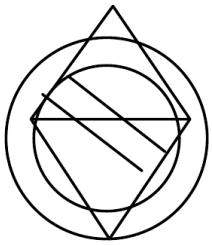
(a)



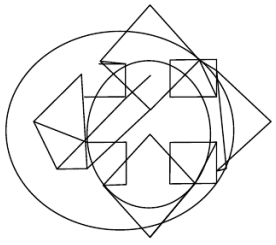
(b)



(c)



(d)



Q28. Deepali is daughter of Vijay, who is the husband of Sunita, If Deepali is the Wife of Mohit, then how is Mohit related to Vijay ?

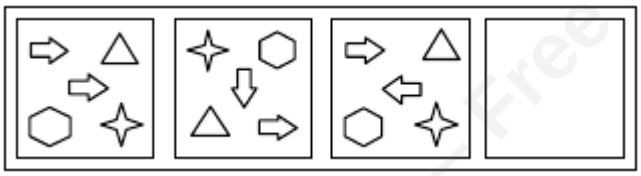
(a) Son-in-law
(b) Son
(c) Brother
(d) Father

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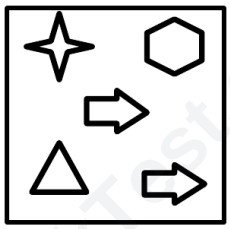
Q29. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Udometer
(b) Decibelmeter
(c) Ombrometer
(d) Pluviometer

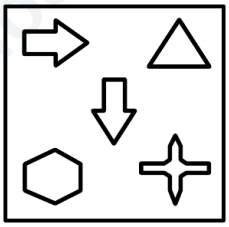
Q30. Select the option that will fill in the blank and complete the given series.



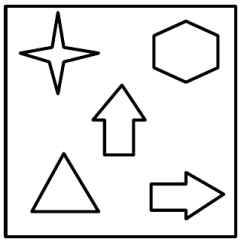
(a)



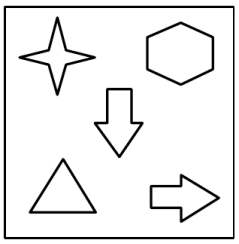
(b)



(c)



(d)



Q31. Select the term that will come next in the following series.

YF, WJ, UN, SR, QV, ?

(a) OY
(b) OZ
(c) PZ
(d) PX

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Q32. Select the number that will come next in the following series.

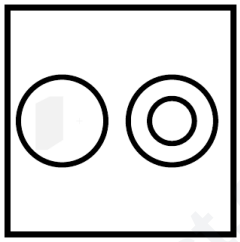
487, 502, 518, 535, ?

(a) 552
(b) 553
(c) 653
(d) 451

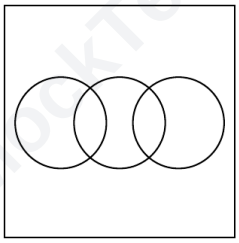
Q33. Select the Venn diagram that best represents the relationship between the following classes.

Solar System, Earth, Jupiter

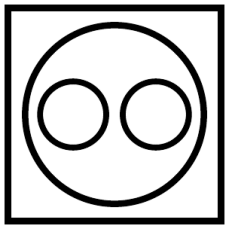
(a)



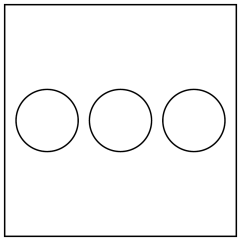
(b)



(c)



(d)



Q34. 3 friends A, B and C are working in a company. The salary of A is Rs. 45000 per month. C's monthly salary is 3/5 of B's monthly salary. B's monthly salary is double of A's monthly salary. What is the total salary of A, B and C per month ?

(a) Rs. 1,80,000
(b) Rs. 1,90,000
(c) Rs. 1,89,000
(d) Rs. 1,79,000

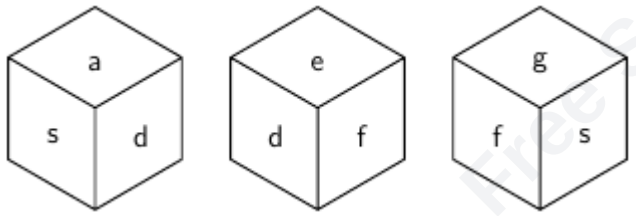
Q35. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) CFIM
(b) ADGJ

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(c) FILO
(d) EHKN

Q36. Three different positions of the same dice are shown. Select the letter that will be on the face opposite to the one having 's'.



(a) f
(b) d
(c) e
(d) a

Q37. Select the option that is related to the third term in the same way as the second term is related to the first term
Belt : Leather :: Bread : ?
(a) Cake
(b) Flour
(c) Sandwich
(d) Wood

Q38. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

116	160	?
3	8	13
7	4	2

(a) 346
(b) 168
(c) 204
(d) 130

Q39. In a certain language code, 'SMART' is written as AMRST. How will 'DESIGN' be written as in that language ?
(a) DEGINS
(b) SGITMD
(c) EIADGS
(d) DAISGN

Q40. Which two signs should be interchanged to balance the given equation?
4 × 3 + 10 - 2 ÷ 7 = 10
(a) × and +
(b) ÷ and -
(c) • and -
(d) ÷ and ×

Q41. Select the option that is related to the third number in the same way as the second number is related to the first number.
7 : 42 :: 18 : ?
(a) 304
(b) 302
(c) 308
(d) 306

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Q42. Four number-pairs have been given below, out of which three are alike in some manner and one is different. Select the odd one from the option.

(a) 156 : 12
(b) 210 : 14
(c) 240 : 15
(d) 276 : 16

Q43. In a certain code language, GOLF is written as 60 and START is written as 117. How will NEST be written as in that language ?

(a) 58
(b) 21
(c) 87
(d) 78

Q44. Select the letters that can replace the question marks (?) in the following series respectively.

ZKA, CHX, FEU, ?BR, L?O

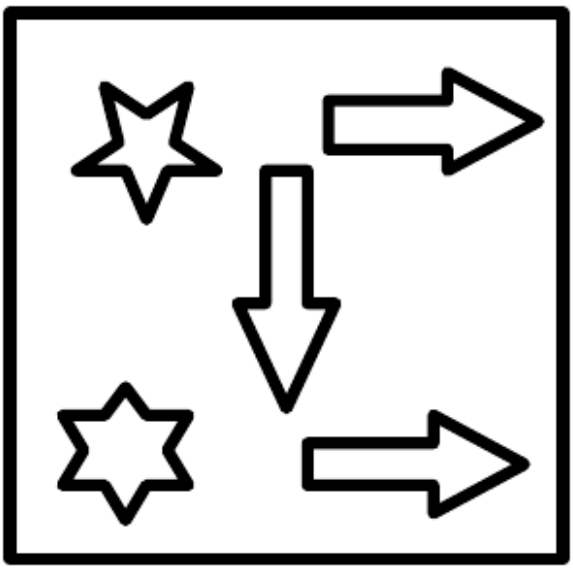
(a) D and Y
(b) J and Z
(c) H and Z
(d) I and Y

Q45. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

3	**30**	**84**
2	10	18
4	?	260

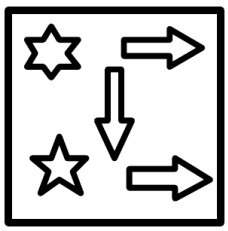
(a) 68
(b) 64
(c) 16
(d) 60

Q46. Select the correct mirror image of the given figure when a mirror is placed on the right of the figure.

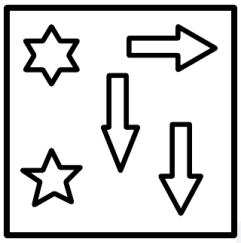


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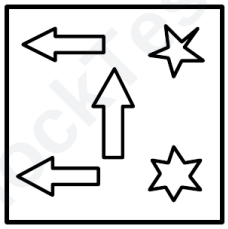
(a)



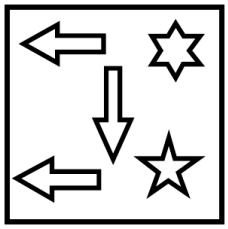
(b)



(c)



(d)



Q47. Four word-pairs have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Intact : Unflawed
(b) Entire : Partial
(c) Bright : Luminous
(d) Pure : Perfect

Q48. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion/s logically follow(s) from the statements.

Statements:

1. All scanners are mouse.

2. Some mouse are printers.

Conclusions:

I. No printer is a scanner.

II. Some printers are mouse.

III. No printer is a mouse.

IV. No scanner is a printer.

(a) Only conclusion IV follows
(b) Only conclusion I follows

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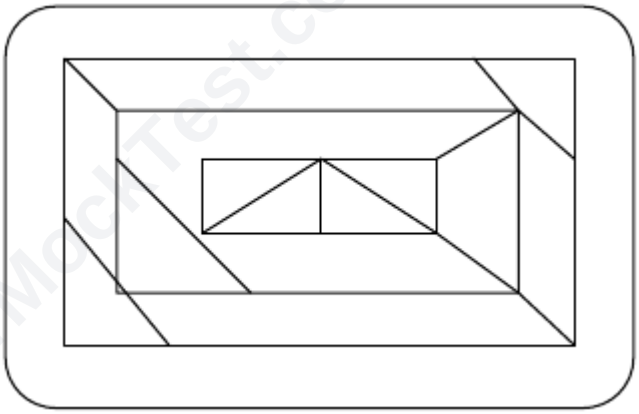
(c) Only conclusion II follows
(d) Only conclusion III follows

Q49. Select the correct option from the given options that arranges the following words in a logical and meaning sequence.

1. Disease
2. Medicine
3. Junk Food
4. Healthy

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

Q50. Find the number of triangles in the given figure.



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

QUANTITATIVE APTITUDE

Q51. If $2a + 1/(a) = 4$, then find the value of $a^2 + 1/(4a^2)$ is:

(a) 5
(b) 3
(c) 12
(d) 4

Q52. A reduction of 20% in the price of sugar enables a purchase to obtain 4 kg more for Rs. 160. The original price of sugar per kg is:

(a) Rs. 12
(b) Rs. 10
(c) Rs. 15
(d) Rs. 14

Q53. The value of 21/36 ÷ 5/9 of (51/10 + 21/5) + 2/5 ÷ 31/5 is:

(a) 3/8
(b) 3/7
(c) 5/12
(d) 5/8

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Q54. If $a^2 + b^2 + 2b + 4a + 5 = 0$, then the value of $(2a - 3b)/(2a + 3b)$ is equal to:

(a) 3/7
(b) 2/7
(c) 1/7
(d) 2/5

Q55. A train takes 45 minutes to cover a certain distance at a speed of 80 km/h. If the speed is increased by 125%, then how long will it take the train to cover 8/5 of the same distance ?

(a) 32 minutes
(b) 28 minutes
(c) 25 minutes
(d) 30 minutes

Q56. Two numbers A and B are, respectively, 80% and 20% more than a third number C. The ratio of the number A to B is:

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

Q57. A and B can do a work in 15 days and 10 days respectively. They begin the work together but B leaves after two days. Now A completes the remaining work. The total number of days needed for the completion of the work is:

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

Q58. If a number is divided by 899, the remainder is 63. If the same number is divided by 29, the remainder be:

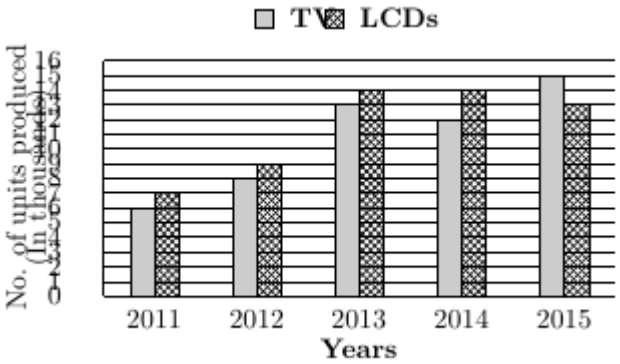
(a) 4
(b) 10
(c) 2
(d) 5

Q59. An article is sold at a profit of 30%. If both cost price and selling price of the article are decreased by Rs.100, the profit now would be 45%. The original cost price of the article is:

(a) Rs. 500
(b) Rs. 250
(c) Rs. 300
(d) Rs. 400

Q60. Study the following bar diagram and answer the question that follows.

The production (in thousands) of electronic items (TV and LCD) in a factory during the period 2011 to 2015.



The ratio of total production of LCDs in the years 2012 and 2014 to the total production of TVs in the years 2012 and 2014 is:

(a) 23: 20
(b) 19: 21
(c) 23: 25
(d) 21: 25

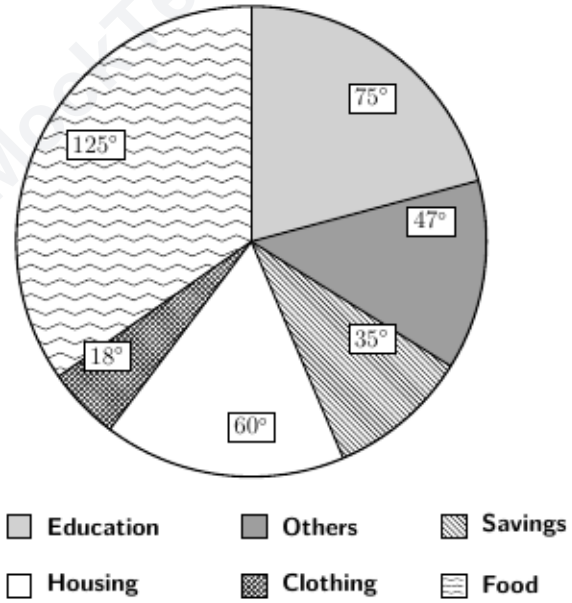
Q61. If cosec θ = 13/12, then the value of (2sin θ - 3cos θ)/(4sin θ - 9cos θ) is:

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

Q62. If tanθ + cotθ = 2 and θ is acute, then the value of tan^(100) θ + cot^(100) θ is equal to:

(a) 0
(b) √3
(c) 2
(d) 1

Q63. The following pie-chart shows the monthly expenditure incurred by a family on various items, and their savings. Study the chart and answer the question that follows.



If the expenditure on education is Rs. 2,700 more than that on housing, then the total expenditure on food and clothing is:

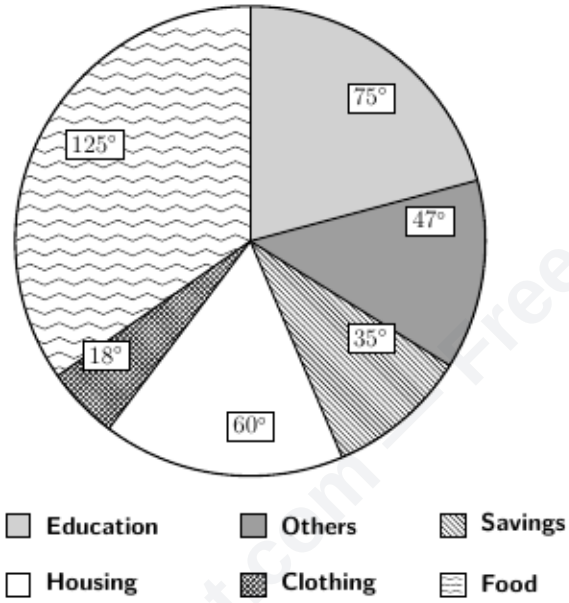
(a) Rs. 25,400
(b) Rs. 27,540
(c) Rs. 27,450
(d) Rs. 25,740

Q64. If the compound interest on a certain sum of money for 2 years at 5% p.a. is Rs. 328, then the sum is equal to:

(a) Rs. 3,000
(b) Rs. 3,200
(c) Rs. 3,600
(d) Rs. 3,500

Q65. The following pie-chart shows the monthly expenditure incurred by a family on various items and their savings. Study the chart and answer the question that follows.

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If the monthly incomes is Rs. 64,800, then the yearly saving are:

(a) Rs. 75,600
(b) Rs. 70,500
(c) Rs. 72,500
(d) Rs. 75,000

Q66. An article is listed at Rs. 8500 and discount offered is 12%. What additional discount (percent) must be given to bring the selling price to Rs. 6358

(a) 10%
(b) 20%
(c) 15%
(d) 9%

Q67. The difference between the largest and the smallest angles of a triangle whose angles are in the ratio of 4 : 3 : 8, is:

(a) 30°
(b) 50°
(c) 40°
(d) 60°

Q68. In a ΔABC, 2angle ABC = 9angle ACB and 2angle BAC = 7angle ACB. If AB = 8 cm, AC = 17 cm, then the length of BC is:

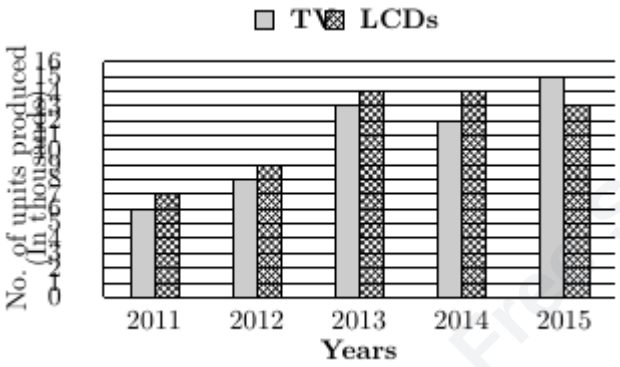
(a) 15 cm
(b) 8 cm
(c) 9 cm
(d) 25 cm

Q69. The total surface area of a solid cube is 2400 cm^2. The volume of cube is:

(a) 6000 cm^3
(b) 8400 cm3
(c) 8200 cm3
(d) 8000 cm3

Q70. Study the following bar diagram and answer the question that follows.

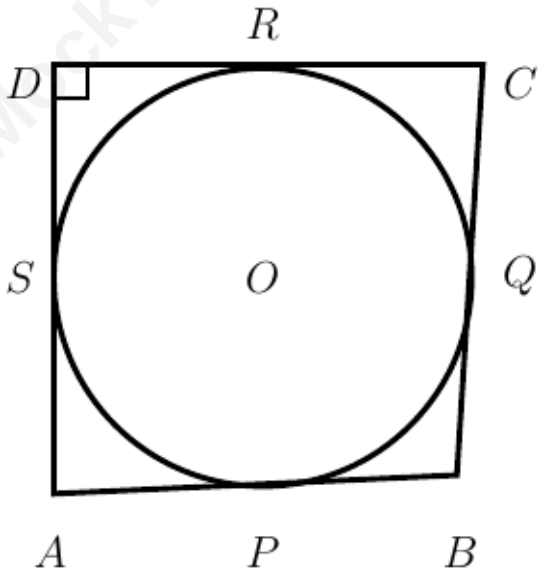
The production (in thousands) of electronic items (TV and LCD) in a factory during the period 2011 to 2015.



The difference between the average production of LCDs and that of TVs from 2011 to 2013 is:

(a) 1000
(b) 800
(c) 1200
(d) 900

Q71. ABCD is a quadrilateral such that angle D = 90°. A circle with centre O touches the sides AB, BC, CD and DA at P, Q, R and S, respectively. If BC = 40 cm, BP = 28 cm and CD = 25 cm, then what is the radius of the circle ?



(a) 5 cm
(b) 13 cm
(c) 12 cm
(d) 8 cm

Q72. What is the value of $a^3 + b^3 + c^3 - 3abc$, when a = 225, b = 226, and c = 227 ?

(a) 2430
(b) 2304
(c) 2340
(d) 2034

Q73. If A is an acute angle and cot A + cosec A = 3, then the value of cos A is equal to:

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

Q74. AB is a diameter of a circle with centre O, and P is point on the circle. If angle POA = 130°, then angle BPO is equal to:

(a) 55°
(b) 65°
(c) 45°
(d) 60°

Q75. If 40 is added to a list of natural numbers, the average is increased by 4. When 30 is added to the new list, the average of the numbers in the new list is increased by 1. How many number were in the original list ?

(a) 8
(b) 5
(c) 4
(d) 6

GENERAL AWARENESS

Q76. Which of the following tiger reserves is NOT located in Karnataka?

(a) Dandeli-Anshi
(b) Bhadra
(c) Nagarhole
(d) Pench

Q77. Vyommitra is_____.

(a) A chatbot developed by Indian Railways Catering and Tourism Corporation (IRCTC)
(b) The first banking robot in India
(c) A humanoid robot introduced to assist teachers at schools in India
(d) A humanoid built by Indian Space Research Organization (ISRO)

Q78. NPK is a:

(a) Sanitizer used to clean dusty leaves
(b) Fertilizer used for increasing fertility of soil
(c) Brand of sprinkler for irrigation
(d) Medicine used to control pests

Q79. In Vienna, there's a statue of Indian hockey player _____ holding four hockey sticks in four hands.

(a) Udham Singh Kular
(b) Dhanraj Pillay
(c) Dhyan Chand
(d) Bharat Kumar Chettri

Q80. In April 2020, Facebook—an American social media and technology company — announced its plan to buy _____% equity stake in Reliance Jio.

(a) 20.0
(b) 9.99
(c) 1.99
(d) 2.99

Q81. _____ is famous for Muga silk.

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

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Q82. At one stage in the Vedic Age, the king was called 'gopati' which meant '_____'.

(a) lord of cattle
(b) lord of land
(c) lord of the people
(d) lord of the universe

Q83. _____ is the inflammatory compound in pepper spray.

(a) curcumin
(b) gingerol
(c) quercetin
(d) capsaicin

Q84. DefExpo-2020, a flagship biennial event of the Ministry of Defence, Government of India, was held in _____ from 5th to 9th February, 2020.

(a) Lucknow
(b) Kanpur
(c) Prayagraj
(d) Noida

Q85. The world wide web was invented in the year _____.

(a) 1989
(b) 1985
(c) 1982
(d) 1987

Q86. Which of the following is NOT a feature of the Indian Federal System?

(a) Independent judiciary to settle disputes
(b) Single-tier government
(c) Written Constitution
(d) Division of powers between the Centre and the States

Q87. _____ is the oldest hockey tournament in India.

(a) Beighton Cup
(b) Bombay Gold Cup
(c) MCC Murugappa Gold Cup
(d) Obaidullah Khan Gold Cup

Q88. Prithviraj Chauhan defeated Muhammad Ghori in a battle in the year _____ but lost to him the following year.

(a) 1182
(b) 1163
(c) 1191
(d) 1176

Q89. The Jharia and Chandrapura coal fields are located in the state of _____.

(a) Nagaland
(b) Gujarat
(c) Uttarakhand
(d) Jharkhand

Q90. Who was appointed as the Chief of the Indian Research and Analysis Wing (RAW) in June 2019?

(a) Samant Goel
(b) Anil Dhasmana
(c) Rajiv Jain
(d) Arvind Kumar

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Q91. Name the holy city recognized as the birthplace of the first and fourth Jain Tirthankaras.

(a) Gaya
(b) Varanasi
(c) Ayodhya
(d) Dwaraka

Q92. 'Tenpins' refers to the game of _____.

(a) baseball
(b) bowling
(c) billiards
(d) basketball

Q93. Which of the following Indian-origin UK politicians was previously Chief Secretary to the Treasury before being appointed Chancellor of the Exchequer (United Kingdom) on 13 February 2020?

(a) Sajid Javid
(b) Navendu Mishra
(c) Gagan Mohindra
(d) Rishi Sunak

Q94. Union Legislature alone can make laws on matters related to _____.

(a) police
(b) public health
(c) local self-government
(d) railways

Q95. Who was the Director-General of the World Health Organisation in April 2020?

(a) Zsuzsanna Jakab
(b) Tedros Adhanom Ghebreyesus
(c) Bernhard Schwartländer
(d) Roberto Azevêdo

Q96. _____ is also known as the 'All India War Memorial'.

(a) Gateway of India
(b) India Gate
(c) Victory at Sea Memorial
(d) Raj Ghat

Q97. The Great Leap Forward (GLF) was a campaign initiated in _____ in 1958 aimed at industrialising the country on a massive scale.

(a) Bangladesh
(b) Sri Lanka
(c) India
(d) China

Q98. The traditional rod puppet of Bihar is known as _____.

(a) Bommalattam
(b) Sakhi Kundhei
(c) Malasutri Bhaulya
(d) Yampuri

Q99. Which of the following is a vertebrate?

(a) Roundworm
(b) Earthworm
(c) Snake
(d) Millipede

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Q100. _____ was a web browser developed by the National Centre for Supercomputing Application (NCSA).

(a) Mosaic
(b) Navigator
(c) Opera
(d) Safari

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Panacea

The correct answer is- Panacea.

Key Points

• Let's look at the meaning of the marked option:
• Panacea- a solution or remedy for all difficulties or diseases
• Let's look at the meanings of the other given options:
• Nectar- a sugary fluid secreted by plants, especially within flowers to encourage pollination by insects and other animals
• Tablet- a flat slab of stone, clay, or wood, used especially for an inscription
• Syrup- a thick sweet liquid made by dissolving sugar in boiling water, often used for preserving fruit
• Hence, from the given meanings, we find that Panacea is the correct one-word substitute.

Q2. Answer: (c) Descend

The solution is in Hindi. Read it online.

Q3. Answer: (a) Articulate

The correct answer is- Articulate.

Key Points

• Let's look at the meanings of the given word and marked option:
• Enunciate- express (a proposition, theory, etc.) in clear or definite terms
• Articulate- (of a person or a person's words) having or showing the ability to speak fluently and coherently
• Let's look at the meanings of the other given options:
• Engage- occupy, attract, or involve (someone's interest or attention)
• Confine- keep or restrict someone or something within certain limits of (space, scope, quantity, or time)
• Create- bring (something) into existence
• Hence from the given meanings, we find that Enunciate and Articulate are synonyms.

Q4. Answer: (b) Profesional

The correct answer is - Profesional.

Key Points

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• Let's look at the correct spelling and meaning of the marked option:
• Professional- relating to or belonging to a profession
• Example:
• He isn't a professional artist but an amateur one.
• Let's look at the meanings of the other given options:
• Professor- a teacher of the highest rank in a college or university
• Profuse- (especially of something offered or discharged) exuberantly plentiful; abundant
• Protrude- extend beyond or above a surface

Q5. Answer: (b) grave

The correct answer is- grave.

Key Points

• An adjective is any member of a class of words that modify nouns and pronouns.
• Let's have a look at the meanings of the given adjectives:
• large- of considerable or relatively great size, extent, or capacity
• grave- giving cause for alarm; serious
• small- of a size that is less than normal or usual
• big- of considerable size, extent, or intensity
• As per the context of the sentence, deforestation can be prevented only if people are aware of its serious effects.
• Hence in the given blank part of the sentence, the correct choice will be the 2nd option i.e. grave.

Q6. Answer: (b) prohibiting

The correct answer is- prohibiting.

Key Points

• A gerund is a word ending in "-ing" that is made from a verb and used as a noun.
• Just as nouns sometimes function as objects in a sentence, so can gerund phrases.
• For example:
• Tim enjoys running with scissors.
• In the given sentence, we need the gerund form of the verb 'prohibit' i.e. prohibiting.
• The verb 'prohibit' means formally forbid (something) by law, rule, or other authority.
• Thus the 2nd option i.e. 'prohibiting' will be the correct choice.

• The 1st and the 4th option are completely wrong as the sentence is in the present tense.
• The 3rd option is incorrect as this verb is doesn't conform to the plural subject i.e. laws.

Q7. Answer: (a) with

The correct answer is - with.

Key Points

• There are some verbs/nouns/adjectives which are followed by fixed preposition given below:
• Exonerate from, refrain from, suspicious of, cope with, aptitude for, inured to, accused of, predilection for, respite from, vexed at, etc.
• Example:
• After spending some time on the island, they became inured to the hardships.
• Hence, according to the phrases given above, 'with' will be the correct choice.
• The given phrase 'cope with' means to deal with and attempt to overcome problems and difficulties.

Additional Information

• There are some fixed prepositional phrases given below:
• by the dint of, out of jealousy, in danger, by car/bus/train, owing to, on a trip, for a change, etc.
• For example:
• I went on a trip to Goa last month.

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Q8. Answer: (a) however

The correct answer is- however.

Key Points

• An adverb is a word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, etc.

• Let's have a look at the meanings of the given adverbs:

• however- used to introduce a statement that contrasts with or seems to contradict something that has been said previously

• whenever- at whatever time; on whatever occasion (emphasizing a lack of restriction)

• whoever- the person or people who; any person who

• wherever- in or to whatever place (emphasizing a lack of restriction)

• As per the context of the sentence, man has brought his own downfall despite all the help from trees in many ways.

• Hence in the given blank part of the sentence, the correct choice will be the 1st option i.e. however.

Q9. Answer: (b) which

The correct answer is- which.

Key Points

• The pronouns that connect a clause or phrase to a noun or a pronoun, is called a relative pronoun.

• The most common relative pronouns are:

• who, whom, whose, which, that.

• Example:

• We don't know the person who donated this money.

• You need to tick the box which says yes.

• We use 'who/whose' in relative clauses to refer to people, and sometimes to pet animals. (refer to the above example)

• We use 'which' in relative clauses to refer to animals and things, to introduce defining and non-defining relative clauses.

• We use 'whom' if the noun/pronoun is the object of the verb in the dependent clause.

• Example:

• The uncle whom we met at the family reunion is coming to visit. (The noun 'uncle' is the object of the verb met.)

• The person with whom I spoke was able to help me. (The noun 'person' is the object of the preposition with.)

• Since we are referring to 'one of the ways' in this sentence, 'which' will be used in the blank part of the sentence.

Additional Information

• We use 'which' in relative clauses to refer to animals and things.

• Example:

• You need to tick the box which says Yes.

Q10. Answer: (d) criticizing

The correct answer is- criticizing.

Key Points

• Let's have a look at the meanings of the given words:

• applauding- show approval or praise by clapping

• appreciating- recognize the full worth of

• flaunting- display (something) ostentatiously, especially in order to provoke envy or admiration or to show defiance

• criticizing- indicate the faults of (someone or something) in a disapproving way

• The idiom 'burnt her boats' which is used in the former part of the sentence means to destroy all possible ways of going back to that situation.

• This idiom indicates that Janki did something which upset her previous supervisor.

• Hence in the given blank part of the sentence, the correct choice will be the 4th option i.e. criticizing.

Q11. Answer: (b) the situation had become unbearable

The correct answer is- the situation had become unbearable.

Key Points

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

• The straw that broke the camel's back/the last straw- the last in a series of bad things that happen to make someone very upset,

angry, etc.

• Example:

• It had been a difficult week, so when the car broke down, it was the straw that broke the camel's back.

Additional Information

• Let's look at the origin of the idiom:

• According to Wikipedia, the straw that broke the camel's back is from an Arabic proverb about “how a camel is loaded beyond its capacity to move or stand”.

• It is a "reference to any process by which cataclysmic failure (a broken back) is achieved by a seemingly inconsequential addition, a single straw."

Q12. Answer: (d) blamed

The correct answer is- blamed.

Key Points

• Let's have a look at the meanings of the given words:

• appreciated- recognize the full worth of

• praised- express warm approval or admiration of

• liked- find agreeable, enjoyable, or satisfactory

• blamed- used for emphasis, especially to express disapprobation or annoyance

• The word 'failure' used in the sentence indicates that the equation between the sales team and the engineers would not have been pleasant.

• Hence in the given blank part of the sentence, the correct choice will be the 4th option i.e. blamed.

Q13. Answer: (d) Autobiography

The correct answer is- Autobiography.

Key Points

• Let's look at the meaning of the marked option:

• Autobiography- an account of a person's life written by that person

• Let's look at the meanings of the other given options:

• Essay- a short piece of writing on a particular subject

• Biography- an account of someone's life written by someone else

• Travelogue- a movie, book, or illustrated lecture about the places visited and experiences encountered by a traveler

• Hence, from the given meanings, we find that Autobiography is the correct one-word substitute.

Q14. Answer: (c) By whom was Ravana killed?

The correct answer is - By whom was Ravana killed?

Key Points

• The given sentence is in an active voice form, hence we need to convert it into a passive voice form.

• We need to follow these instructions while changing the voice of an interrogative sentence.

• The preposition 'by' will commence the sentence.

• The objective case of the pronoun 'who' will be used now. (whom)

• The given sentence is in the simple past tense.

• The passive verb form for the simple past interrogative sentence: was/were + subject + past participle form of the verb.

• So, 'killed Ravana' changes into 'was Ravana killed'.

• At last line up the remaining part.

Following these steps, we finally get- By whom was Ravana killed?

Q15. Answer: (d) Samurai Jack drawn

The correct answer is- Samurai Jack drawn.

Key Points

• The simple past tense is used to talk about things that happened or existed before now.

• It shows that we are talking about something that has already happened.

• The structure is given below:

• Subject + V2 + object.

• Example:
• Wolfgang entered a hula hoop contest.
• In the given question, the act of taking the sword out has already taken place.
• Hence according to the rule and example given above, 'drew' will replace 'drawn' in the part given in the 4th option.
Correct Sentence: Samurai Jack drew his sword to exact revenge on his superiors.
Additional Information
• Some phrases are followed by past indefinite/simple tense as given below:
• It's high time, It's time, It's about time, etc.
• For example:
• It's high time I start preparing for my final exams*.*
• It's high time I started preparing for my final exams.

Q16. Answer: (d) DABC

The correct answer is - DABC.
Key Points
• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:
• Sentence D introduces us to the subject 'Mahesh'. It is the introductory sentence and will be put in the first place.
• Sentence A tells us about how the twins were going about learning to drive. It will be put in second place.
• Sentence B tells us about Mahesh's attitude towards the twins. It will be put in third place.
• The last sentence is C as it mentions the scenario after two months of learning.
• Thus, the correct order is - DABC

Q17. Answer: (a) Flevor

The correct answer is - Flevor.
Key Points
• Let's look at the correct spelling and meaning of the marked option:
• Flavour- the distinctive taste of a food or drink
• Example:
• He didn't really like the flavour of the drink.
• Let's look at the meanings of the other given options:
• Floor- the lower surface of a room, on which one may walk
• Flour- a powder obtained by grinding grain, typically wheat, and used to make bread, cakes, and pastry
• Flower- the seed-bearing part of a plant, consisting of reproductive organs (stamens and carpels) that are typically surrounded by a brightly colored corolla (petals) and a green calyx (sepals)

Q18. Answer: (d) Doing something that fails someone’s plan

The solution is in Hindi. Read it online.

Q19. Answer: (a) Gentle

The correct answer is- Gentle.
Key Points
• Let's look at the meanings of the given word and marked option:
• Harsh- unpleasantly rough or jarring to the senses
• Gentle- having or showing a mild, kind, or tender temperament or character
• Let's look at the meanings of the other given options:
• Bitter- having a sharp, pungent taste or smell; not sweet
• Tough- (of a substance or object) strong enough to withstand adverse conditions or rough or careless handling
• Grave- giving cause for alarm; serious
• Hence from the given meanings, we find that Harsh and Gentle are antonyms.

Additional Information
• Let's look at the antonyms for the given word:
• Antonyms- peaceable, pacific, placid, serene

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Q20. Answer: (a) as well as

The correct answer is- as well as.

Key Points

• An adverb is a word or phrase that modifies or qualifies an adjective, verb, or other adverb or a word group, expressing a relation of place, time, circumstance, manner, etc.

• As well is an adverb which means ‘also’, ‘too’ or ‘in addition’. We usually use 'as well' at the end of a clause.

• As well as is a multi-word preposition which means ‘in addition to’.

• Example:

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

• When they go to Austria, they like walking as well as skiing.

• As per the structures given above, the adverb 'as' will replace 'also' in the 1st option.

Correct Sentence: The director wanted Aziz to play the role of the doctor as well as that of the apprentice.

Additional Information

• The adverb 'there' is used to begin some stories written in a traditional style.

• Example:

• There once lived a poor widow who had a beautiful daughter.

Q21. Answer: (b) Gary exclaimed that he had finally cleared his exams with distinction.

The correct answer is- Gary exclaimed that he had finally cleared his exams with distinction.

Key Points

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

• When the direct speech is in an exclamatory form, we follow the steps given below:

• Convert the sentence in the direct speech into assertive.

• The tense of reported speech is changed only when the reporting verb is in the past tense.

• The reporting verb said is converted into exclaimed.

• The pronoun 'I' is replaced by 'he' accordingly.

• Similarly 'my' will be replaced by 'his' in the latter part of the sentence.

• The helping verb is changed according to the tense, followed by the 3rd form of the verb.

• The present perfect tense i.e. have cleared will be changed to the past perfect tense i.e. had cleared.

• At last line up the remaining part.

Following these steps, we finally get- Gary exclaimed that he had finally cleared his exams with distinction.

Q22. Answer: (c) Amass

The correct answer is- Amass

Key Points

• Let's look at the meanings of the given word and marked option:

• Assemble- (of people) gather together in one place for a common purpose; Amass

• Amass- to collect or put together a large quantity of something

• Let's look at the meanings of the other given options:

• Disband- (of an organized group) break up or cause to break up and stop functioning

• Detach- disengage (something or part of something) and remove it

• Address- the particulars of the place where someone lives or an organization is situated

• Hence from the given meanings, we find that Assemble and Amass are synonyms.

Q23. Answer: (d) on

The correct answer is- on.

Key Points

• There are some fixed prepositional phrases given below:

• by the dint of, out of jealousy, on strike, by the dozen, owing to, on a trip, for a change, etc.

• For example:

• I went on a trip to Goa last month.

• The phrase 'on strike' means (of employees) refuse to work as a form of organized protest, typically in an attempt to obtain a

particular concession from their employer.
• Thus the preposition 'on' will be the correct choice.
Correct Sentence: All the employees of the nationalized banks are on strike.
Additional Information
• There are some verbs/nouns/adjectives which are followed by fixed preposition given below:
• Exonerate from, refrain from, suspicious of, interested in, inured to, accused of, predilection for, respite from, vexed at, etc.
• Example:
• **After spending some time on the island they became inured to the hardships.

Q24. Answer: (a) marrying to Philip

The correct answer is- marrying to Philip.
Key Points
• Let's look at the points given below:
• Subject + marry/divorce (any verb form) + Object.
• Subject + get/be + married + to + Object.
• Subject + get/be + divorced + from + Object.
• Example:
• Lauren Bacall married her co-star, Humphrey Bogart.
• She got/is married to someone she met at college.
• She got/is divorced from her second husband.
• As per the structures given above, the verb 'married' will replace 'marrying' in the 1st option.
Correct Sentence: Queen Elizabeth got married to Philip, former Prince of Greece and Denmark.

Q25. Answer: (a) CABD

The correct answer is - CABD.
Key Points
• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:
• Sentence C introduces us to the subject 'Akbar the great'. It is the introductory sentence and will be put in the first place.
• Sentence A tells us about Akbar's command to make Birbal leave the kingdom. It will be put in second place.
• Sentence B tells us about how Birbal lived his life after leaving the kingdom. It will be put in third place.
• The last sentence is D as it mentions how Akbar reacted after months of being without his favourite minister.
• Thus, the correct order is - CABD

Q26. Answer: (d) [figure]

When the paper is unfolded it will appear like :-
So, answer is the figure given below
Hence, the correct answer is "Option (4)".

Q27. Answer: (d) [figure]

The given figure in question is embedded in option (4).
Hence, the correct answer is "Option (4)".

Q28. Answer: (a) Son-in-law

Members : Deepali, Vijay, Sunita, Mohit
Family chart,
Drawing the family tree as per the given information :
From the family tree, we get
Deepali is the daughter of Vijay and Mohit is the husband of Deepali.
So, Mohit is son-in-law of Vijay.
Hence, the correct answer is "Son-in-law".

Q29. Answer: (b) Decibelmeter

Udometer, Ombrometer and Pluviometer are Rainfall measuring instruments.
While Decibelmeter is noise measuring instrument.

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Thus, Decibelmeter is different from other options.

Hence, the correct answer is "Decibelmeter".

Additional Information

• A rain gauge (also known as an udometer, pluviometer, or an ombrometer) is an instrument used by meteorologists and hydrologists to gather and measure the amount of liquid precipitation over an area in a predefined period of time.

Q30. Answer: (c) [figure]

The central arrow is rotated 90° in clockwise direction and the arrow in the top left corner and the star in the bottom right corner are interchanging the positions.

Similarly,

The shape in the bottom left corner and the triangle in the top right corner are interchanging their places.

Hence, the correct answer is "Option (3)".

Q31. Answer: (b) OZ

The pattern followed here is :- The first letter of each word is decreasing by 2 and the second letter of each word is increasing by 4.

Hence, the correct answer is "OZ".

Q32. Answer: (b) 553

The logic follows here is:- Each term is increasing by 1 successively start from 15.

Hence, the correct answer is "553".

Q33. Answer: (c) [figure]

Venn diagram according to the given information :

Solar System, Earth, Jupiter

Earth and Jupiter both are the planet of Solar System they are two different kinds of planets.

There are no relation between Earth and Jupiter but both come under in the Solar System.

Hence, the correct answer is "Option (3)".

Additional Information

1. Jupiter is a gas giant with no discernible solid surface, while Earth is a terrestrial planet. Jupiter's primary atmosphere consists of hydrogen and helium, while Earth's atmosphere is composed of a mix of oxygen and nitrogen and other chemicals.

2. There are eight planets in the solar system: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.

Q34. Answer: (c) Rs. 1,89,000

Given:

=> A's salary = Rs.45000

Calculation:

=> B's salary = 45000 × 2 = Rs.90000

=> C's salary = 90000 × 3/5 = Rs.54000

Therefore Total salary of A, B and C = 90000 + 45000 + 54000 = Rs.1,89,000

Q35. Answer: (a) CFIM

The logic follows here is:- Each letter is increasing by 3 and getting the next letter.

Option 1)

Option 2)

Option 3)

Option 4)

Option 2, 3, and 4 are following this logic but option 1 is different from other options.

So, Option (1) is an odd one.

Hence, the correct answer is "CFIM".

Q36. Answer: (c) e

Concept used :

Opposite faces don't show up together in a particular position of dice.

Considering dice position (1) :

a and d cannot be the opposite to s.
Considering dice position (3) :
f and g cannot be the opposite to s.
Thus, the remaining letter "e" will be opposite to "s".
Hence, the correct answer is "e".

Q37. Answer: (b) Flour

The logic followed here is :
The first word is the product and the second is the ingredient/material used to make it.
Belt is made using Leather.
Similarly,
Bread is made using Flour.
Hence, the correct answer is "Flour".

Q38. Answer: (a) 346

The logic follows here is :
Column wise
First-term = {(Second term)² + (Third term)²} × 2.
First column → 116, 3, 7
$(3^2 + 7^2) \times 2 = (9 + 49) \times 2 = 58 \times 2 = 116$
Second column → 160, 8, 4
$(82 + 42) \times 2 = (64 + 16) \times 2 = 80 \times 2 = 160$
Similarly,
Third column → ?, 13, 2
$(132 + 22) \times 2 = (169 + 4) \times 2 = 173 \times 2 = 346$
? = 346
Hence, the correct answer is "346".

Q39. Answer: (a) DEGINS

The logic follows here is :
Letters of given words are arranged in alphabetical order (A - Z) from left to right.

Given Word	S	M	A	R	T
Alphabetical Order	A	M	R	S	T

Therefore, SMART is rearranged as AMRST.
Similarly,

Given Word	D	E	S	I	G	N
Alphabetical Order	D	E	G	I	N	S

DESIGN will be rearranged as DEGINS.
Hence, the correct answer is "DEGINS".
Arranging alphabets in alphabetical order means that they are arranged in alphabetical order from A to Z.
Example: A, B, C, D, E, F, ..., Z.

Q40. Answer: (b) ÷ and -

Given equation is :
$4 \times 3 + 10 - 2 \div 7 = 10$
To balance the equation :
(I). $4 \times 3 + 10 - 2 \div 7 = 10$
Interchanging (× and +) and using BODMAS rule,
$4 + 3 \times 10 - 2 \div 7 = 10$
$4 + 3 \times 10 - 0.28 = 10$

4 + 30 - 0.28 = 10
34 - 0.28 = 10
33.72 ≠ 10.
LHS ≠ RHS.
(II). 4 × 3 + 10 - 2 ÷ 7 = 10
Interchanging (÷ and -) and using BODMAS rule,
4 × 3 + 10 ÷ 2 - 7 = 10
4 × 3 + 5 - 7 = 10
12 + 5 - 7 = 10
17 - 7 = 10
10 = 10.
LHS = RHS.
(III). 4 × 3 + 10 - 2 ÷ 7 = 10
Interchanging (+ and -) and using BODMAS rule,
4 × 3 - 10 + 2 ÷ 7 = 10
4 × 3 - 10 + 0.28 = 10
12 - 10 + 0.28 = 10
12.28 - 10 =10
2.28 ≠ 10.
LHS ≠ RHS.
(IV). 4 × 3 + 10 - 2 ÷ 7 = 10
Interchanging (÷ and ×) and using BODMAS rule,
4 ÷ 3 + 10 - 2 × 7 = 10
1.33 + 10 - 2 × 7 = 10
1.33 + 10 - 14 = 10
11.33 - 14 = 10
-2.67 ≠ 10.
LHS ≠ RHS.
Hence, the correct answer is "÷ and -".

Q41. Answer: (d) 306

The logic follows here is :
(First number) × (First number - 1) = Second number.
For 7 : 42
7 × (7 - 1) = 7 × 6 = 42.
Similarly,
For 18 : ?
18 × (18 - 1) = 18 × 17 = 306.
Hence, the correct answer is "306".

Q42. Answer: (d) 276 : 16

The logic follows here is :
(I). 156 : 12
$12^2 + 12 = 144 + 12 = 156$
(II). 210 : 14
$14^2 + 14 = 196 + 14 = 210$
(III). 240 : 15
$15^2 + 15 = 225 + 15 = 240$
(IV). 276 : 16
$16^2 + 16 = 256 + 16 = 272 \neq 276$
Thus, 276 : 16 is the odd one.
Hence, the correct answer is "276 : 16".

Q43. Answer: (c) 87

The logic follows here is :

(Sum of place values of alphabets) × 1.5 = Given number

For GOLF = 60

(7 + 15 + 12 + 6) × 1.5 = 40 × 1.5 = 60.

For START = 117

(19 + 20 + 1 + 18 + 20) × 1.5 = 78 × 1.5 = 117.

Similarly,

For NEST

(14 + 5 + 19 + 20) × 1.5 = 58 × 1.5 = 87.

Hence, the correct answer is "87".

Q44. Answer: (d) I and Y

The logic follows here is :

Hence, the correct answer is "I and Y".

Q45. Answer: (a) 68

The logic follows here is :

Row-wise

(First term × Second term) - {First term × (First term - 1)}

First row → 3, 30, 84

(3 × 30) - {3 × (3 - 1)} = 90 - (3 × 2) = 90 - 6 = 84.

Second row → 2, 10, 18

(2 × 10) - {2 × (2 - 1)} = 20 - (2 × 1) = 20 - 2 = 18.

Similarly,

Third row → 4, ?, 260

(4 × ?) - {4 × (4 - 1)} = 260

(4 × ?) - {4 × 3} = 260

(4 × ?) - 12 = 260

(4 × ?) = 260 + 12 = 272

? = 272 ÷ 4

? = 68

Hence, the correct answer is "68".

Q46. Answer: (d) [figure]

The mirror image formed when the mirror is placed on the right side of the figure:

Hence, the correct answer is "Option 4".

Q47. Answer: (b) Entire : Partial

The logic followed here is:

1) Intact and Unflawed are synonyms meaning not damaged and perfect.

2) Entire and Partial are antonyms.

3) Bright and Luminous are synonyms.

4) Pure and Perfect are synonyms.

Both the words are synonyms in all the options except option 2, where the given words are antonyms.

Hence, the correct answer is "Entire : Partial".

Q48. Answer: (c) Only conclusion II follows

The least possible Venn diagram for the given statements is:

Conclusions:

I. No printer is a scanner → False (There is no direct relation given so it can be possible but not definite, hence, false.)

II. Some printers are mouse → True (As some mouse are printers, some printers are mouse is true.)

III. No printer is a mouse → False (It is definitely false as some printers are mouse as shown in the diagram.)

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IV. No scanner is a printer → False (There is no direct relation given so it can be possible but not definite, hence, false.)

Hence, the correct answer is "Only conclusion II follows".

Q49. Answer: (c) 3, 1, 2, 4

The given words follow the order:

3. Junk Food : First, junk food is eaten.

1. Disease : The junk food leads to disease.

2. Medicine : Medicine is taken to cure the disease.

4. Healthy : After the medicine is taken, we become healthy.

So, the correct order is 3, 1, 2, 4.

Hence, the correct answer is "3, 1, 2, 4".

Q50. Answer: (b) 8

Given figure:

Triangles:

ABF, FBE, BED, BCD, BFD

GHI, KJL, XYZ

So, there are 8 triangles in total.

Hence, the correct answer is "8".

Q51. Answer: (b) 3

Given:

$2a + 1/(a) = 4$

Formula used:

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

Calculation:

$2a + 1/(a) = 4$ ----(1)

Divided by 2 in equation number (1)

$\Rightarrow 1/2 \times (2a + 1/(a)) = 1/2 \times 4$

$\Rightarrow a + 1/2a = 2$

Squaring both sides

$\Rightarrow (a + 1/2a)^2 = 4$

$\Rightarrow a^2 + 1/(4a^2) + 2 \times a \times 1/2a = 4$

$\Rightarrow a^2 + 1/(4a^2) + 1 = 4$

$\Rightarrow a^2 + 1/(4a^2) = 3$

Therefore The correct answer is 3.

Q52. Answer: (b) Rs. 10

Given:

A reduction of 20% in the price of sugar

Purchase to obtain 4 kg more for Rs.160

Calculation:

Let the original price per kg of sugar is Rs. x

Then the reduced price per kg = $x \times (80/100) = 4x/5$

Quantity of sugar that can be bought for Rs.160 originally = Rs. $160/x$

Quantity of sugar that can be bought for Rs.160 with reduced price = $160/(4x/5) = 800/4x$

According to the question,

$\Rightarrow 800/4x = (160/x) + 4$

$\Rightarrow (800/4x) – (160/x) = 4$

$\Rightarrow (800 – 640)/4x = 4$

$\Rightarrow 160 = 16x$

$\Rightarrow x = 10$

Therefore The original price of sugar is 10 Rs. per kg

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Q53. Answer: (d) 5/8

We have to follow the BODMAS rule

Calculation:

=> 21/36 ÷ 5/9 of (51/10 + 21/5) + 2/5 ÷ 31/5

=> 73/36 ÷ 5/9 of (51/10 + 11/5) + 2/5 ÷ 16/5

=> 73/36 ÷ 5/9 of ((51 + 22)/10) + 2/16

=> 73/36 ÷ 5/9 × 73/10 + 1/8

=> (73 × 9 × 10)/(36 × 5 × 73) + 1/8

=> 1/2 + 1/8

=> (4 + 1)/8

=> 5/8

Therefore The correct answer is 5/8

Q54. Answer: (c) 1/7

Given:

$a^2 + b^2 + 2b + 4a + 5 = 0$,

Formula used:

$(a + b)^2 = a^2 + b^2 + 2ab$

Calculation:

$a^2 + b^2 + 2b + 4a + 5 = 0$,

=> $a^2 + 4a + b^2 + 2b + 5 = 0$

=> $(a + 2)^2 = a^2 + 4a + 4$

=> $(b + 1)^2 = b^2 + 2b + 1$

=> $a^2 + 4a + 4 + b^2 + 2b + 1 = 0$

=> $(a + 2)^2 + (b + 1)^2 = 0$

So, a + 2 = 0

=> a = -2

And, b + 1 = 0

=> b = -1

Then, (2a - 3b)/(2a + 3b)

Put the value of a and b in this equation

=> (2 × (- 2) - 3 × (- 1))/(2 × (- 2) + 3 × (- 1))

=> (- 4 + 3)/(- 4 - 3)

=> -1/-7

=> 1/7

Therefore The value of

(2a - 3b)/(2a + 3b) is 1/7

Q55. Answer: (a) 32 minutes

Given:

A train takes 45 minutes to cover a certain distance at a speed of 80 km/h

His speed is increased by 125%

Then how long will it take the train to cover 8/5 of the same distance

Formula used:

velocity= distance/time

Calculation:

Distance = velocity × time

Distance = 80 × (45 / 60)

=> 60 km

Speed is increased by 125%

=> 80 + 80 × (125/100)

=> 180 km/hour

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The train to cover 8/5 of the same distance
Distance = 60 × (8/5)
=> 96 km
So time is taken by train,
Time = distance/speed
=> (96/180) = 8 / 15 hr
=> (8/15) hr = (8 / 15) × 60 = 32 minutes
=> 32 minutes
Therefore, covered the distance by train in 32 minutes

Q56. Answer: (a) 3 : 2

Given:
A = 80% more than C
B = 20% more than C
Calculation:
According to the problem
A = 180/100C = 1.8C ---- (1)
B = 120/100C = 1.2C ---- (2)
divide equation 1 by 2
=> A/B = 1.8C/1.2C
=> A/B = 3/2
Therefore The ratio of A to B is 3 : 2

Q57. Answer: (c) 12 days

Given:
A can-do work in 15 days
B can do work in 10 days
Concept used:
A can do a work in n days
So, A's one day work = 1/n
Calculation:
A can-do a work in 15 days
=> A's one-day work = 1/15
B can do a work in 10 days
=> B's one day work = 1/10
A and B's one day work = 1/15 + 1/10
=> 5/30 = 1/6
Two days work of A and B will be 2/6 = 1/3
Remaining work after B left = 1- 1/3 = 2/3
A will finished remaining work in = (2/3) × 15 = 10 days
Therefore Total number of days to complete work is 10 + 2 = 12 days
Shortcut Trick
LCM of 15 and 10 is 30
A = 15 × 2 = 30
B = 10 × 3 = 30
Total work = 30 unit
B does 3 unit work in one day
A does 2 unit work in one day
=> (A + B)'s one day's work is (3 + 2) unit = 5 unit
=> (A + B)'s two days' work is (5 × 2) unit = 10 unit
=> Remaining work = 30 - 10 = 20 unit
A will complete remaining work in, 20/2 = 10 days

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Total number of days = (10 + 2) days = 12 days

Therefore Total number of days to complete work is 12 days

Q58. Answer: (d) 5

Formula used:

Dividend = divisor × quotient + remainder

Calculation:

let the number be x

x = 899 × q + 63

x = (29 × 31 × q + 58) + 5

x = 29 × 33 × q + 5

Because p = 33 × q

x = 29p + 5

when x is divided by 29, quotient = p

Remainder = 5

Shortcut Trick

Remainder 63 is divided by 29 then what Remainder will come it will be the final answer

=> 63/29 remainder is 5

=> 63 = 29 × 2 + 5

Therefore Remainder is 5

Q59. Answer: (c) Rs. 300

Given:

Old profit = 30%

New profit = 45%

Formula used:

Profit% = (SP - CP)/CP × 100

Calculation:

Let the original cost price of the article be X.

Old selling price at 30% profit will be = 130/100 x

=> 1.3x

both cost price and selling price of the article are decreased by Rs.100

Therefore New CP = x -100 and new SP = 1.3x - 100

Profit% = (SP - CP)/CP × 100

45 = ((1.3x - 100) - (x - 100))/(x - 100) × 100

=> 0.45x - 45 = 1.3x - 100 - x + 100

=> 0.45x - 0.3x = 45

=> 0.15x = 45

x = 300

The original cost price is 300

Q60. Answer: (a) 23: 20

Calculation:

According to the problem

Total production of LCD in the year 2012 and 2014 =

14 + 9 = 23

Total production of TV in the years 2012 and 2014 =

8 + 12 = 20

Therefore the required ratio 23: 20

Q61. Answer: (a) 3

Given:

cosec θ = 13/12

Forumula used:

H = hypotenuse, P = perpendicular, B = base

$H^2 = P^2 + B^2$

cosecθ = H/P, sinθ = P/H, cosθ = B/P

Calculation:

=> cosec θ = 13/12 = H/P

=> H = 13, P = 12, $B^2 = H^2 – P^2$

=> $B^2 = 13^2 – 12^2 = 5^2$

=> B = 5

=> sinθ = 12/13, cosθ = 5/13, and cosec θ = 13/12

putting the value of sinθ and cosθ in (2sinθ - 3cosθ)/(4sinθ - 9cosθ)

=> (2 × 12/13 - 3 × 5/13)/(4 × 12/13 - 9 × 5/13)

=> 3

Therefore The value of (2sinθ - 3cosθ)/(4sinθ - 9cosθ) is 3.

Q62. Answer: (c) 2

Given:

tanθ + cotθ = 2

Calculation:

Put the value of θ = 45^o, tan45^o = 1, and cot45^o = 1

Then, tanθ + cotθ = 2

=> tan45^o + cot45^o = 2

=> 1 + 1 = 2

putting the value θ = 45 in tan100θ + cot100θ

=> tan^(100)45 + cot^(100)45

=> 1^(100) + 1^(100)

=> 2

Therefore The value of tan100θ + cot100θ is 2.

Shortcut TrickIf x + 1/x = 2; it's only possible when x = 1.

So tan^(100)θ + cot^(100)θ = 2

Q63. Answer: (d) Rs. 25,740

Given:

Pie-chart shows the monthly expenditure incurred by a family on various items, and their savings.

The expenditure on education is Rs. 2,700 more than that on housing

Formula used:

Expediture = (θ/360°) × given rupees

Calculation:

According to the pie-chart,

Education = 75°, Housing = 60°.

The expenditure on education is greater than housing = 75° – 60°.

=> 15°

According to the given,

=> 15° = 2700

=> 1° = 2700/15

=> Rs. 180

The total expenditure on food and clothing = 125° + 18°

=> 143°

Then, 1° = Rs. 180

=> 143° = 180× 143

=> Rs. 25,740

Therefore The total expenditure on food and clothing is Rs. 25,740.

Q64. Answer: (b) Rs. 3,200

Given:

compound interest(C.I.) - Rs. 328

Rate - 5% p.a.

Time - 2 years

Formula used:

compound interest = principal((1 + r/100)^t - 1)

Calculation:

According to formula,

=> compound interest = principal((1 + r/100)^t - 1)

putting the value of C.I., rate, time in above formula

=> 328 = principal((1 + 5/100)² - 1)

=> 328 = (principal(21 × 21 - 20 × 20))/(20 × 20)

=> principal = (328 × 20 × 20)/41

=> principal = Rs. 3200

Therefore The sum is Rs. 3200.

Ratio method:

Rate = 5%

=> 5/100 = 1/20

=> 41 unit = 328

=> 1 unit = 328/41

=> 1 unit = 8

Then, sum is 400 unit

=> 400 unit = 400 × 8

=> Rs. 3200

Therefore The sum is Rs. 3200.

Q65. Answer: (a) Rs. 75,600

Given:

The monthly incomes is Rs. 64,800

the monthly expenditure incurred by a family on various items, and their savings is 360°

Formula used:

saving income = (saving angle (θ)/360°) × monthly income

Calculation:

According to the pie-chart,

=> Saving angle = 35°

For one month,

=> Saving income = (saving angle (θ)/360°) × monthly income

=> Saving income = (35°/360°) × 64800

=> Saving income = Rs.6300

=> Saving income in a whole year = Rs.6300 × 12 months

=> Rs.75600

Therefore Yearly savings are Rs.75600.

Mistake Points Monthly income/saving is given and yearly saving is asked hence Saving will be more than Expenditure

Q66. Answer: (c) 15%

Given:

List price of an article = Rs. 8500 and two discount offered first one is 12% and second one we have to find. Also the selling price = Rs. 6358

Calculation:

List price = Rs. 8,500 and Discount = 12% (12% = -3/25 = 22/25)

=> After first discount price came down by = (8500) × 22/25 = 85 × 88 = Rs. 7480

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=> As given selling price = Rs. 6,358

=> Discount given = Rs. (7480 - 6358) = Rs. 1122

=> Discount is on the given List price = (1122/7480) × 100 = 15%.

Q67. Answer: (d) 60°

The solution is in Hindi. Read it online.

Q68. Answer: (a) 15 cm

Given:

Let Us consider our given Triangle a right angle triangle.

2angle ABC = 9angle ACB and 2angle BAC = 7angle ACB. If AB = 8 cm, AC = 17 cm,

Let us consider that angle ABC = x°, angle BAC = z°, angle BCA = y°

Calculation:

=> 2angle ABC = 9angle ACB

=> 2 × x° = 9 × y°

=> x°/y° = 9/2 _____ (1)

=> 2 × z° = 7 × y°

=> z°/y° = 7/2 _____ (1)

Now, take the ratio of the angles

=> x° : y° : z°

=> 9 : 2 : 7

As the sum of all the angle of a triangle = 180°

=> 9 + 2 + 7 = 180°

=> 1 unit = 180°/18 = 10°

Therefore x° : y° : z°

(9 : 2 : 7) × 10° = 90°, 20°, 70 °

=> The given triangle is a right angle triangle

Now, By Pythagoras Theoram

$8^2 + 15^2 = 17^2$

Therefore BC = 15 cm

Q69. Answer: (d) 8000 cm3

Given:

As Shown in the above figure. Let us assume this is the given cube having side = A cm. Total Surface Area of the cube = 2400 cm^2 _____ (1)

Formula used:

Total Surface Area of a given Cube = 6 ×a^2

Where, a = Side of the cube

Volume of the Cube = a^3

Calculation:

=> As Total Surface area of a cube = 6 × A^2 = 2400

=> A^2 = (2400)/6 = 400

=> A^2= √ 400 = 20 cm

Now, Volume of the cube = A^3= $(20)^3$

Therefore Volume of the cube = 8000 cm^3

Q70. Answer: (a) 1000

Given:

As we can see in the diagram that the production of LCD's in the year 2011, 2012, 2013 are as follows:

7000, 9000, 14000 units

The Production of TV's in the year 2011, 2012, 2013 are as follows: 6000, 8000, 13000 units

Calculation:

The Sum of the LCD's is

=> 7000 + 9000 + 14000 = 30,000 units

=> The average of LCD's = (30000)/3 = 10,000 units ____ (1) Now, The sum of the TV's = 6000 + 8000 + 13000 = 27,000 units => The Average of the TV's = 27,000/3 = 9000 units ____ (2)

=> Subtract (1) & (2)

=> 10,000 – 9,000 = 1000 units

Q71. Answer: (b) 13 cm

Given :

angle BDS = 90° BC = 40 cm, BC = 40 cm, BP = 28 cm and CD = 25 cm

Concept: Line joining from centre of Circle to a tangent makes Right angle at Tangent

calculation:

Joint OR and OS from centre to tangential point R, S respectively

angle ORD = 90°

angle OSD = 90°

angle DSO = 90°

=> DROS is square

=> DR = SO (SO is radius)

PB = 28 cm

=> QB = 28 (tangent from a same point)

=> QC = 12, DC = 25

=> RC = 12 (tangent from a same point),

=> DR = 13 cm DS = 13 cm (DR = DS) (tangent from a same point)

=> DR = 13 cm

Q72. Answer: (d) 2034

Given : a3 + b3 + c3 - 3abc, when a = 225, b = 226, and c = 227

Formula used :

=> $a^3 + b^3 + c^3 - 3abc = 1/2(a + b + c) [(a - b)^2 + (b - c)^2 + (c - a)^2]$

$a^3 + b^3 + c^3 - 3abc = 1/2(225 + 226 + 227) [(225 - 226)^2 + (226 - 227)^2 + (227 - 225)^2]$

=> $a^3 + b^3 + c^3 - 3abc = 1/2(678) [1^2 + 1^2 + 2^2]$

$a^3 + b^3 + c^3 - 3abc = (678)(3) = 2034$

Q73. Answer: (a) 4/5

Shortcut Trick

If cosec A + cot A = x, then cosec A − cot A = 1/x.

Given: cosec A + cot A = 3 => cosec A − cot A = 1/3.

Adding both: 2 cosec A = 3 + 1/3 = 10/3 => cosec A = 5/3.

Since sin A = 3/5, using Pythagorean triplet (3, 4, 5), the base is 4.

cos A = Base/Hypotenuse = 4/5.

Therefore The correct answer is 4/5.

Alternate Method

Given: cot A + cosec A = 3

Formula Used: $cosec^2A − cot^2A = 1$

=> (cosec A − cot A)(cosec A + cot A) = 1

=> (cosec A − cot A) × 3 = 1

=> cosec A − cot A = 1/3 --- (Equation 1)

=> cosec A + cot A = 3 --- (Equation 2)

=> Adding (1) and (2): 2 cosec A = 3 + 1/3 = 10/3

=> cosec A = 5/3

=> Since sin A = 1/cosec A, sin A = 3/5

=> $cos^2A = 1 − sin^2A$

=> $cos^2A = 1 − (3/5)^2 = 1 − 9/25 = 16/25$

=> cos A = √(16/25) = 4/5

Therefore The correct answer is 4/5.

Additional Information

Trigonometric Identities

Fundamental identities include $\sin^2A + \cos^2A = 1$, $1 + \tan^2A = \sec^2A$, and $1 + \cot^2A = \text{cosec}^2A$.

Pythagorean Triplets

Common triplets like (3, 4, 5), (5, 12, 13), and (8, 15, 17) help in solving right-angled triangle problems quickly without long square root calculations.

Reciprocal Relations

Remember that cosec A = 1/sin A, sec A = 1/cos A, and cot A = 1/tan A.

Q74. Answer: (b) 65°

Given :

AB is a diameter of circle centre O,

Formula used : linear pair angle, angle on straight line = 180°

angle AOP = 130 °

angle POB = (180 ° - 130 °) = 50°

Δ POB = angle P = angle B (Isosceles triangle)

=> angle POB = 50°

Δ POB = angle POB + angle OBP + angle BPO = 180°

=>180° = 50°+ 2×angle BPO

=>130/2 = angle BPO

=>65° = angle BPO

Q75. Answer: (c) 4

Let there be n numbers in the original list and let their mean be y.

Then, sum of n numbers = ny

According to Question

=> (ny+40)/(n+1)=y+4 ……(1)

=>(ny+40+30)/(n+2)=y+5 ……(2)

On solving Eq 1

ny + 4n +y+4 = ny + 40

4n + y = 36 ……(3)

Similarly eq 2

5n + 2y = 60 ……(4)

On solving eq 3 and 4 by elimination

y = 20, n = 4

Q76. Answer: (d) Pench

The correct answer is Pench.

• Pench Tiger Reserve is located in Madhya Pradesh in Seoni and Chhindwara districts.

• Pench Tiger Reserve comprises the Indira Priyadarshini Pench National Park, the Pench Mowgli Sanctuary, and a buffer.

• The Reserve gets its name from the Pench River that flows through the reserve.

• Recently in NEWS

• The death of a 10-year-old ailing male tiger, in the Pench Tiger Reserve (PTR) to a ‘respiratory illness’ has raised concerns that whether the tiger should be tested for the novel coronavirus disease.

Important Points

• Dandeli-Anshi, Bhadra, and Nagarhole Tiger reserves are located in Karnataka.

• The government of India launched Project Tiger in the year 1973.

• The project aims at ensuring a viable population of Tigers in their natural habitats, protecting them from extinction, and preserving areas of biological importance.

Q77. Answer: (d) A humanoid built by Indian Space Research Organization (ISRO)

The correct answer is a humanoid built by the Indian Space Research Organization (ISRO).

• Vyommitra is a female humanoid - something that has an appearance resembling a human but is robotic - built by ISRO.

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• A Humanoid is a Robot with a human-like appearance that can interact, and behave just like humans in different environments.
• She has been built for ISRO's first unmanned Gaganyaan mission.
• Vyommitra can monitor module parameters, alert astronauts and perform life support operations.
• Vyommitra can recognize faces through artificial intelligence and is trained to handle critical functions.

Gaganyaan Mission:
• The Gaganyan mission, scheduled for December 2021, is ISRO's first human space mission.
• It will be for the first time that India will launch its manned mission to space, making the country fourth in line to have sent a human to space.
• The human spaceflight will take 16 minutes to reach orbit where it will stay for five to seven days.

Q78. Answer: (b) Fertilizer used for increasing fertility of soil

The correct answer is Fertilizer used for increasing fertility of soil.
• NPK stands for
• N- Nitrogen
• P- Phosphorus
• K- Potassium
• All plants need nitrogen, phosphorus, and potassium to grow.
• Nitrogen (N) – Nitrogen is largely responsible for the growth of leaves on the plant.
• Phosphorus (P) – Phosphorus is largely responsible for root growth and flower and fruit development.
• Potassium (K) – Potassium is a nutrient that helps the overall functions of the plant perform correctly.
• NPK increases the fertility of the soil.

• Fertilizer is a natural or synthetic substance that is applied to the soil or the plants to improve growth and productivity.
• The different types of fertilizers include:
• Inorganic fertilizer- Nitrogen fertilizer, Phosphorus fertilizer
• Organic fertilizers- Agricultural waste, livestock manure, municipal sludge

Q79. Answer: (c) Dhyan Chand

The correct answer is Dhyan Chand.
• In Vienna, there is a statue of Indian Hockey player Dhayan Chand holding four hockey sticks in four hands.
• The residents of Vienna (Austria) had installed a statue of him with four hands and four hockey sticks indicating his control and mastery over the ball.
• Major Dhyan Chand was born on 29 August 1905 in Prayagraj (Allahabad), Uttar Pradesh. He represented India in the 1928, 1932, and 1936 Olympics and won gold medals in each Olympics.
• Dhyan Chand's autobiography 'Goal' was published in 1952. He was awarded India's third highest civilian award – Padma Bhushan in 1956.
• Major Dhyan Chand announced his retirement from hockey in the year 1948.

• Dhayan Chand's birthday is celebrated as National Sports Day in India on 29 August.
• On this date, the Rajiv Gandhi Khel Ratna Award, Arjuna Award, and Dronacharya Award are given by the President.

Q80. Answer: (b) 9.99

The correct answer is 9.99.
• In April 2020, Facebook announced to buy 9.99% equity stake in Reliance Jio.
• The deal, which valued Jio at a pre-money valuation of $65.95 billion, makes Facebook the largest minority shareholder in the Indian telecom network.
• This investment marks will focus on collaborating with Jio to create "new ways for people and businesses to operate more effectively in the growing digital economy."

• Facebook
• Headquarters- California, USA
• CEO- Mark Zuckerberg

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Q81. Answer: (b) Assam

The correct answer is Assam.

• Assam is famous for Muga Silk.

• This silk is known for its extreme durability and has a natural yellowish-golden tint with a shimmering, glossy texture.

• It was previously reserved for the use of royality.

• It is used in products like saris, mekhalas and chadors.

• Muga silk was recognized as a protected geographical indication (GI) in 2007 and was granted a GI logo for trademark purposes in 2014.

ASSAM

• Assam is the largest economy in the northeast region.

• It has the largest tea-growing area in the world.

• Capital- Dispur

• CM- Himanta Biswa Sarma

• Governor- Gulab Chand Kataria

Q82. Answer: (a) lord of cattle

The correct answer is Lord of Cattle.

Key Points

• In the Vedic Age, King was called 'Gopati' which meant "lord of cattle".

• The period when the Aryans first entered India is known as the Early Vedic Age (1500 BCE to 1000 BCE).

• The chief source of information about this period is the Rigveda.

• The kingdom was tribal in character. The tribal chief was called Rajan.

• He ruled over the people (Jana) and not over any specific area of land.

• His main function was to protect the people and lead the army to victory in battle. Battles were fought for land which was essential for agriculture and for pastures for the cattle.

• He used to receive a large part of the booty collected in battle.

• King was also called gopati (Lord of Cattle) indicating that protecting and increasing the cattle was his other major role.

Q83. Answer: (d) capsaicin

The correct answer is capsaicin.

• Capsicum and Capsaicin are the inflammatory compounds in pepper spray.

• Capsaicin is a chemical compound that was first isolated from chili peppers in crystalline form in 1878.

• Pepper spray, also known as capsicum spray, is a lachrymatory agent (a chemical compound that irritates the eyes to cause tears, pain, and even temporary blindness).

• This spray is used in crowd control and personal self-defense, including defense against dogs and bears.

Q84. Answer: (a) Lucknow

The correct answer is Lucknow.

• DefExpo-2020, a flagship biennial event of the Ministry of Defence, Government of India was held in Lucknow from 5th to 9th February 2020.

• Def Expo promises to bring new technologies, technological solutions, where Defence manufacturing companies from India and abroad showcase their products and services in Defence arena, on a single platform.

• The main theme of the DefExpo India- 2020 is ‘India: The Emerging Defence Manufacturing Hub’ and the focus will be on ‘Digital Transformation of Defence’.

• The fifth India Russia Military Industry Conference will be held on the sidelines of DefExpo 2020 at the venue.

Q85. Answer: (a) 1989

The correct answer is 1989.

• The first web browser known as World Wide Web or WWW or W3 was discovered in the second half of the 1980s.

• It is basically a system of internet servers that support specially formatted documents.

• WWW is also known as Web which is an information space where documents and other resources of the web are identified by the Uniform Resource locators URLs like https://www.example.com which may be interlinked by hypertext and are accessible through the internet.

• WWW resources are accessed by the users through a software application known as a web browser.

• World Wide Web was invented by Tim Berners-Lee.

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Q86. Answer: (b) Single-tier government

The correct answer is Single-tier government.

Key Points

• An Indian constitution is a quasi-federal form of the constitution where powers are unequally distributed between centre and state.

Difference between:

Unitary Government	Federal Government
A unitary government is one in which all the powers are vested in the national government and the regional government.	A federal government is one in which powers are divided between the national government and the regional governments by the Constitution itself and both operate in their respective jurisdictions independently.

• Features of the Federal System of India:

• Governments at least two levels

• Division of powers between various levels

• Rigidity of constitution

• Independence judiciary

• Single citizenship

• Bicameralism

• So, a Single-tier government is not a feature of the Indian Federal System.

Q87. Answer: (a) Beighton Cup

The correct answer is Beighton Cup.

Key Points

• Beighton Cup is the oldest hockey tournament in India.

• It was Instituted in 1895.

• It is organized by Hockey Bengal earlier called Bengal Hockey Association

• Hockey is a sport in which two teams play against each other by trying to manoeuvre a ball or a puck into the opponent's goal using a hockey stick.

• The total number of players playing on the pitch in a hockey match is 22.

• Field Hockey is the national game of India.

• The Indian Hockey Federation was established in 1925.

• Indian Men’s Hockey team was the winner of the Hockey World Cup in 1975 held in Kualalampur, Malaysia.

Q88. Answer: (c) 1191

The correct answer is 1191.

Key Points

• The first battle fought by the Rajputs is the Battle of Tarain in 1191.

• In this war, Prithviraj of the Chauhan Dynasty defeated the Mohammed of Ghori, at Tarain near Thaneswar.

• The Second Battle of Tarain in 1192 was fought at Tarain only, in which Prithviraj Chauhan was defeated by Mohammad Ghori. Muslim power in India was laid by this.

Additional Information

• Important Battles:

The first battle of Tarain	It was fought in 1191 between Muhammad Ghori and Prithviraj Chauhan.
The first battle of Panipat	It was fought between the forces of Babur and Ibrahim Lodhi. The Battle was fought on April 21, 1526.
The second battle of Panipat	It was fought between Hindu Emperor Hemu Chandra Vikramaditya and Akbar. It was fought on 5th November 1556.

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Q89. Answer: (d) Jharkhand

The correct answer is Jharkhand.

• The Jharia and Chandrapura coal fields are located in the state of Jharkhand.

• Jharia in Jharkhand is the largest coal mining field. Most of the coking coal in India is obtained from here.

• Coal is the foremost power resources in India and is the most abundantly available fossil fuel.

• It provides a substantial part of the nation's energy needs.

• It is used for power generation, to supply energy to industry as well as for domestic needs.

• Other major coalfields in Jharkhand are Chandrapura, Bokaro, Giridih, Karanpura and Ramgarh.

Q90. Answer: (a) Samant Goel

The correct answer is Samant Goel.

• Samant Goel was appointed as the Chief of the Indian Research and Analysis Wing (RAW) in June 2019.

• He has been appointed for a fixed tenure of two years.

• He is a 1984 batch IPS officer of the Punjab cadre.

• He had joined the RAW in 2001 and possesses rich experience in intelligence and operations.

RAW (Research and Analysis Wing)

• The Research and Analysis Wing (RAW) was founded in 1968 to counter primarily China & Pakistan.

• Until 1968, the Intelligence Bureau (IB), was responsible for India's internal intelligence and external intelligence.

• After the poor performance of Indian intelligence in the war of 1962 against China and 1965 against Pakistan, the government felt the need for a separate external intelligence agency.

• RAW provides intelligence to policymakers and the army.

• Raw keeps close eyes on the activities of the neighboring countries (China, Pakistan, Sri Lanka, Myanmar, etc.) of India.

• The primary focus of RAW remains on China and Pakistan.

Q91. Answer: (c) Ayodhya

The correct answer is Ayodhya.

• The birthplace of the first and fourth Jain Tirathkaras is Ayodhya.

• Tirthankara's are the savior and spiritual teachers of the Jain dharma.

• According to Jain scripture, a Tirthankara is a rare individual who has conquered the samsara, the cycle of death and rebirth, on their own and made a path for others to follow.

• The First Tirathkaras of Jainism was Lord Rishabha. Birthplace- Ayodhya

• The second TIrathkara was Ajitanath. Birthplace- Ayodhya

• The third Tirathkara was Sambhavanatha. Birthplace- Sravasti

• The fourth Tirathkaras of Jainism was Abhinandananatha. Birthplace- Ayodhya

Jainism

• Jainism was founded by Aadinath and Rishabha Dev, while the real founder was Mahavir swami.

• The important principles of Jainism are-: Ahimsa, Satya (truth), Asteya (not to steal), Aparigraha, and Brahmacharya.

• The place where Jain visits to worship are called Jain Temple or Derasar.

• Jainism is divided into two sections as Svetambara and Digambara.

Q92. Answer: (b) bowling

The correct ansawe is bowling.

• Bowling is also referred to as 'Tenpins'.

• It is one of the world's most popular recreational games.

• This game in which a heavy ball is rolled down a long, narrow lane toward a group of objects known as pins, the aim being to knock down more pins than an opponent.

• The game is quite different from the sport of bowls, or lawn bowls, in which the aim is to bring the ball to rest near a stationary ball called a jack.

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Q93. Answer: (d) Rishi Sunak

The correct answer is Rishi Sunak.

• Indian-origin Rishi Sunak was named as the new Finance Minister of the United Kingdom by PM Boris Johnson on February 13, 2020.

• Rishi Sunak is the son-in-law of Infosys co-founder Narayana Murthy.

• Rishi Sunak is an Indian-origin British politician, who was born in Southampton to an Indian Punjabi family.

• He has been appointed as the Chancellor of the Exchequer in Boris Johnson's cabinet.

• He will be replacing Sajid Javid, who resigned from the post.

• He also served as the Chief Secretary to the Treasury from July 2019-February 2020.

• Now, he has been appointed as Chancellor of the Exchequer, the second most important position in the British Government.

Q94. Answer: (d) railways

The correct answer is Railways.

• Union legislation alone can make laws on matters related to railways.

• Under the Constitution of India, the legislative power with respect to Railway's vests exclusively in 'Parliament in terms of Article 246.

• Article 246 of the Constitution demarcated the powers of the Union and the State by classifying their powers into 3 lists, namely Union List, State List, and the Concurrent List.

• The Indian Railways began its operations on 16 April 1853.

• It is the world's seventh-largest employer with over 1.4 million employees on its rolls.

• Indian Railways is the world's second-largest network operated under a single administration.

• It is the largest railway network in Asia.

Q95. Answer: (b) Tedros Adhanom Ghebreyesus

The correct answer is Tedros Adhanom Ghebreyesus.

Key Points

• Tedros Adhanom Ghebreyesus was the Director-General of the World Health Organisation in April 2020.

Additional Information

World Health Organisation (WHO)

• WHO is the United Nations' specialized agency for Health.

• It was founded in 1948.

• Its headquarters are situated in Geneva, Switzerland.

• There are 194 Member States, 150 country offices, six regional offices.

• It is an inter-governmental organization and works in collaboration with its member states usually through the Ministries of Health.

• The WHO provides leadership on global health matters, shaping the health research agenda, setting norms and standards, articulating evidence-based policy options, providing technical support to countries, and monitoring and assessing health trends.

• The WHO celebrates World Health Day annually on its formation day (7 April). The theme for 2020 was "Year of the Nurse and Midwife".

Q96. Answer: (b) India Gate

The correct answer is India Gate.

Key Points

• India Gate is also known as the 'All India War Memorial'.

• The India Gate is a war memorial located in Delhi.

• Sir Edwin Lutyens was its chief designer.

• It was inaugurated on February 12, 1931, by Viceroy Lord Irwin.

• The entire arch stands on a low base of red Bharatpur stone and rises in stages to a huge moulding. It has the names of Indian soldiers inscribed on its walls, who gave up their lives in the Afghan Wars and World War I.

• Amar Jawan Jyoti was added as another memorial, which is burns day and night under the arch to remind the nation of soldiers who laid down their lives in the Indo-Pakistan War of December 1971.

Additional Information

Gateway of India	**The Gateway of India is an arch monument built during the 20th century in Bombay, India. It was built during British rule and was inaugurated on December 4, 1924.**
Victory at Sea Memorial	The Victory at Sea Memorial is an Indian memorial constructed after the Indo-Pakistani War of 1971 which is dedicated to the Indian Navy. It was constructed in 1996. It is located on Beach Road, Visakhapatnam.
Rajghat	Rajghat is located in Delhi and dedicated to the father of the nation Mahatma Gandhi. It is located on the bank of the river Yamuna.

Q97. Answer: (d) China

The correct answer is China.

Key Points

• The Great Leap Forward (GLF) was a campaign initiated in 1958 in China.
• It was aimed to modernize China's economy.
• The campaign was imitated towards the large-scale industrialization in the country not concentrated only in the urban areas.
• The people were motivated to set up industries in their backyards.
• In the rural areas commune system was implemented.
• Under this system, people were engaged in collective farming.

Q98. Answer: (d) Yampuri

The correct answer is Yampuri.

Key Points

• The traditional Rod puppet of Bihar is known as Yampuri.
• These puppets are made of wood.
• Puppetry is one of the traditional art forms which is used as an effective medium of entertainment and communication.
• It is an art form, not only provides entertainment but also conveys a meaningful and useful message.

• Puppetry of:

Tamil Nadu	**Bommalattam**
Odisha	Sakhi Kundhei
Maharashtra	Kalasutri Bahulya

Q99. Answer: (c) Snake

The correct answer is Snake.

Key Points

• Snakes belong to the vertebrates, along with all other reptiles and amphibians, mammals, birds, and fish.
• All these animals have an inner skeleton.
• Invertebrate and vertebrate are the two groups into which animal kingdom is further classified.
• Vertebrates have fully developed vertebral column. They have a proper skeletal structure.
• Example- humans, birds, snakes.
• Invertebrate animals are those which do not develop a vertebral column.
• Example- insects like a cockroach, flatworm, earthworm, crabs, snails, etc.
• Roundworm, Earthworm and Millipede all these options are examples of invertebrates.

Q100. Answer: (a) Mosaic

The correct answer is Mosaic.

Key Points

• Mosaic is a web browser.
• In 1993, the “Mosaic” web browser was released.
• It was developed by the National Centre for Supercomputing Application (NCSA).
• It had the feature of adding images and an innovative graphical interface.

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• It was “the world’s first popular browser”.

• A software application used to access information on the World Wide Web is called a Web Browser. When a user requests some information, the web browser fetches the data from a web server and then displays the webpage on the user’s screen.

• “WorldWideWeb” was the first web browser created by Tim Berners Lee in 1990. This is completely different from the World Wide Web we use today

• Finally, in the year 2008, Google released “Chrome” and within a time span of 3 years, it took over all the other existing browsers and is one of the most commonly used web browsers across the world.

• The following web browsers were developed by:

Navigator	**Jim Clark and Marc Andreessen**
Opera	Jon Stephenson and Geir Ivarsoy
Safari	Apple Company

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