SSC CHSL Previous Paper 21 (Held On: 15 Oct 2020 Shift 3) (Previous Year Paper)

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

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ENGLISH LANGUAGE

Q1. Directions: 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.

She was looking troubled when the teacher asked her to submit the homework.

(a) is look trouble
(b) was troubling
(c) had been trouble
(d) No improvement

Q2. Directions: Select the correct indirect form of the given sentence.

Neeta said, "Let me see how Pragya performs in her preboard examinations."

(a) Neeta wants to see Pragya's performance in her preboard examinations.
(b) Neeta said that she wanted to see how Pragya performed in her preboard examinations.
(c) Neeta wanted to see how Pragya would perform in her preboard examinations.
(d) Neeta said I would see how Pragya performed in her preboard examinations.

Q3. Directions: Select the word which means the same as the group of words given.

An unforeseen happening which creates some damage

(a) Mishap
(b) Menace
(c) Magical
(d) Mystery

Q4. Directions: Select the word which means the same as the group of words given.

Come in the way of

(a) Deprive
(b) Indulge
(c) Facilitate
(d) Hamper

Directions

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 blank.

A recent census of waterbirds conducted as a part of the Asian Waterbird Census (1)____ an increase in their population in Najafgarh Jheel this year. The census also showed a (2)__ in the number of threatened species. Last year, the number of waterbird species were thirty-one which climbed to fifty- four this year, while the threatened variety (3)__ from four to six in the same duration. The region also saw a healthy monsoon in 2019, which would have (4)__ impacted the quality of habitat, making it (5)____ to more birds.

Q5. Select the most appropriate option for blank number 1.

(a) reaped
(b) recorded
(c) played
(d) responded

Q6. Select the most appropriate option for blank number 2.

(a) health
(b) wealth
(c) growth
(d) slowdown

Q7. Select the most appropriate option for blank number 3.

(a) had risen
(b) is rise
(c) rises
(d) rose

Q8. Select the most appropriate option for blank number 4.

(a) deftly
(b) decently
(c) directly
(d) dutily

Q9. Select the most appropriate option for blank number 5.

(a) unattractive
(b) impossible
(c) attractive
(d) possible

Q10. Directions: Select the INCORRECTLY spelt word.

(a) Pressurised
(b) Suppression
(c) Implicatted
(d) Coercion

Q11. Directions: In the given sentence identify the segment which contains the grammatical error.

The neighbourhood were getting disturbed with the loud music that was playing at the wedding party in the big bungalow.

(a) The neighbourhood were getting disturbed
(b) at the wedding party
(c) that was playing
(d) in the big bungalow

Q12. Directions: Select the most appropriate synonym of the given word.

INTERSPERSED

(a) Collected
(b) Scattered
(c) Wore
(d) Met

Q13. Directions: 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.

"Did you tell your parents that you would going to a movie with me this evening?" My friend asked me.

(a) that you are going

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(b) then you were being gone
(c) when you will going
(d) this that you was going

Q14. Directions: Four jumbled sentences are given. Select the option that gives their correct order.

A. The minimum temperature in the national capital dropped yesterday as cold northwesterly winds continued to blow in from the hills.

B. North India has been witnessing a harsh winter this year.

C. However, experts said the minimum temperatures would increase over the next few days due to a cloud cover.

D. A favourable outcome of the wind factor was that there was a slight decrease in air pollution levels due to the wind speeds.

(a) ABDC
(b) BCDA
(c) BADC
(d) CDAB

Q15. Directions: Select the INCORRECTLY spelt word.

(a) Escalation
(b) Irritable
(c) Irational
(d) Appreciation

Q16. Directions: Select the most appropriate word to fill in the blank in the given sentence.

The flyover was closed in October last year for repairs but its reopening has been _____ as it will be ready only in March this year.

(a) built
(b) delayed
(c) broken
(d) repaired

Q17. Directions: Select the most appropriate ANTONYM of the given word

IMPROMPTU

(a) Planned
(b) Fast
(c) Appropriate
(d) Unplanned

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

FRAGILE

(a) Fast
(b) Strong
(c) Slow
(d) Fancy

Q19. Select the most appropriate meaning of the given idiom.

Eat humble pie

(a) Eat less food
(b) Admit that you are wrong
(c) Make noise while eating
(d) Eat something which is not tasty

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Q20. Directions: In the given sentence identify the segment which contains the grammatical error.

The park was well lighted at night but it was deserted, so it was a bit scared.

(a) The park was well lighted
(b) but it was deserted
(c) so it was a bit scared
(d) at night

Q21. Directions: Select the most appropriate meaning of the given idiom.

To fall on deaf ears

(a) To be ignored
(b) To be paid attention
(c) To be listened carefully
(d) To be aware of what is going on

Q22. Directions: Four jumbled sentences are given. Select the option that gives their correct order.

A. Saranda forests, in Singhbum, are a huge catchment for rivers and streams in this state.

B. If these forests are opened up for mining purposes the remaining rivers and streams will dry up.

C. The state of Jharkhand faces water scarcity every summer.

D. These forests are India's largest contiguous Sal forests and the current plan says mining should not be allowed in the dense forest as rivers are drying up.

(a) CADB
(b) BADC
(c) ACDB
(d) CBAD

Q23. Direction: Select the most appropriate synonym of the given word.

MASQUERADED

(a) Dropped
(b) Acted
(c) Managed
(d) Disappeared

Q24. Directions: Select the correct passive form of a given sentence.

We can buy diamonds, but we cannot buy sympathy.

(a) Diamonds cannot be bought but sympathy cannot be brought.
(b) Diamonds can be bought but sympathy cannot be bought.
(c) Diamonds can be bought and sympathy cannot be brought.
(d) Diamonds can be bought but sympathy can be brought.

Q25. Directions: Select the most appropriate word to fill in the blank in the given sentence.

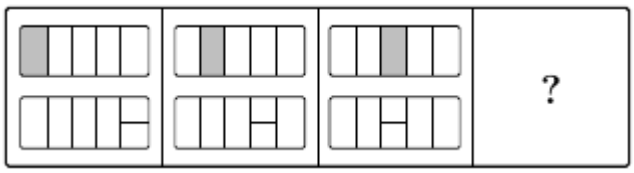
Today's _____ are only interested in watching movies with the stories they can relate to the cinema.

(a) personalities
(b) politics
(c) accountants
(d) audiences

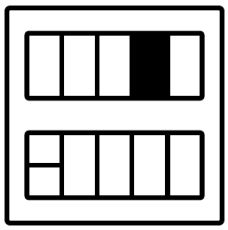
GENERAL INTELLIGENCE

Q26. . Select the figure that can replace the question mark (?) in following figure series.

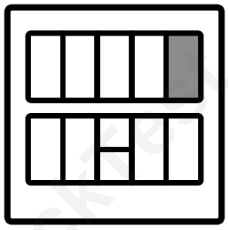
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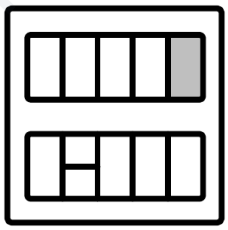
(a)



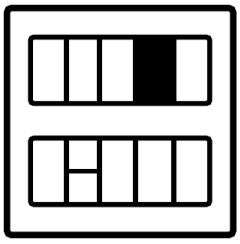
(b)



(c)



(d)



Q27. Read the given statement 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 conclusions logically follow(s) from the statements.

Statements:

1. All bottle are jugs.

2. Some jugs are glasses.

Conclusion:

I. Some jugs are bottles.

II. Some glasses are jugs.

III. All glasses are bottles.

(a) Only conclusion I and II follow.

(b) Only conclusions II follow.

(c) Only conclusion I follows.

(d) Only conclusion II and III follow.

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Q28. Select the correct mirror image of the given letter-cluster when a vertical mirror is placed on the right side of the cluster.

R h f g b q

(a)

b q p t h d

(b)



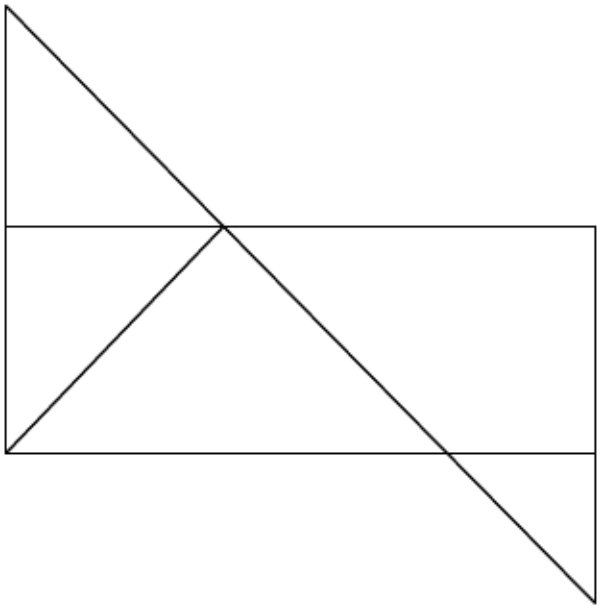
(c)



(d)



Q29. How many triangles are there in the given figure?



(a) 8
(b) 7
(c) 5
(d) 6

Q30. In a certain code language, 'PROCTOR' is written as 'RUSBURW'. How will 'HOSTING' be written as in that language?

(a) VRKSJQL
(b) WXKSJQN
(c) VRKTJRL
(d) VQKSLSL

Q31. X is 5 years older than Y. The total of the current ages of X and Y is 33 years. What will be the age of Y after 7 years?

(a) 14 years
(b) 21 years
(c) 22 years
(d) 20 years

Q32. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

(a) Yuan
(b) Dollar
(c) Dinar
(d) Oslo

Q33. Select the correct option that arranges the following words in a logical and meaningful order.

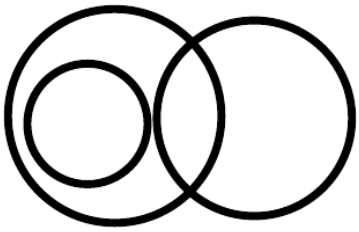
1. Infant
2. Old age
3. Adolescent
4. Adult
5. Childhood

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

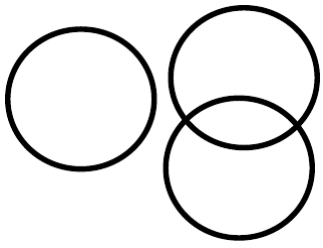
Q34. Select the Venn diagram that best represents the relationship between the following words.

Graduates, Post-graduates, Sisters

(a)

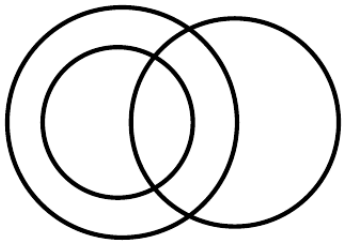


(b)

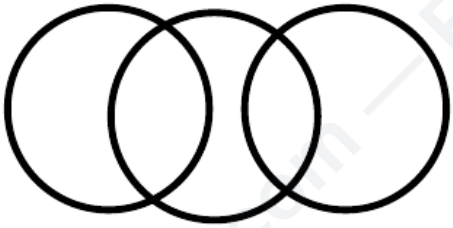


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(c)



(d)

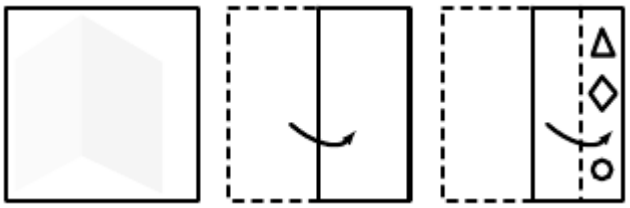


Q35. Select the option that is related to the third number in the same way as the second number is related to the first number.

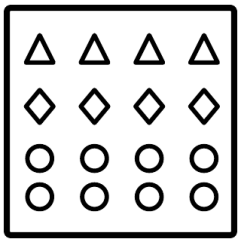
11 : 143 ? 23 : ?

(a) 529
(b) 470
(c) 572
(d) 667

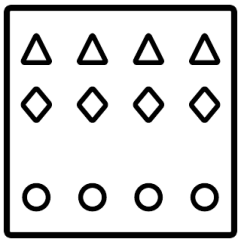
Q36. The sequence of folding a pieces of paper and the manner in which the folded paper has been cut is shown in the following figures. Select from the option figures, how would this paper look when unfolded ?



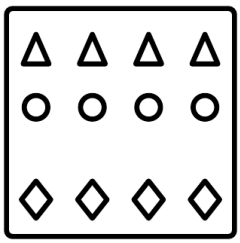
(a)



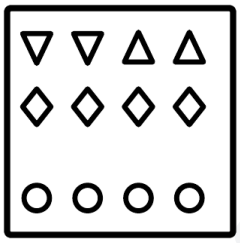
(b)



(c)



(d)



Q37. 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

TZS : WCV ? KQP : ?

(a) NTS
(b) MTS
(c) NSP
(d) NTP

Q38. “Curtain” is related to “Cloth” in the same way as “Ornament” is related to ‘ _____’.

(a) Goldsmith
(b) Beauty
(c) Gold
(d) Expensive

Q39. Select the combination of letters that when sequentially placed from left to right in the blanks of the given letter series will complete the series.

L_UK_A_KLA_KL_UK

(a) KLAUL
(b) AUUAL
(c) ALUUA
(d) LUUAL

Q40. Pointing to the photograph of a boy, Vikas said, ”His father’s mother, Sunitha, is my wife’s sister’s mother”. How is Sunitha related to Vikas ?

(a) Mother-in-law
(b) Mother
(c) Maternal grandmother
(d) Maternal aunt

Q41. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(4, 67, 20)

(a) (7, 52, 104)
(b) (5, 28, 56)
(c) (6, 219, 44)
(d) (3, 30, 12)

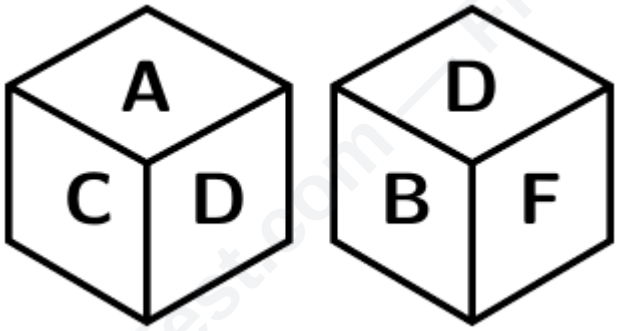
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Q42. Select the number that can replace the question mark (?) in the following series.

114, 121, 138, 175, 242, ?

(a) 347
(b) 345
(c) 356
(d) 349

Q43. Two different positions of the same dice are shown, the six faces of which are marked by the letters A, B, C, D, E, and F. Which letter will be on the face opposite to the one showing 'D'?



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

Q44. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different from the rest.

(a) 25 : 200
(b) 22 : 166
(c) 14 : 112
(d) 15 : 120

Q45. Select the option figure in which the given figure X is embedded. (Rotation is not allowed)

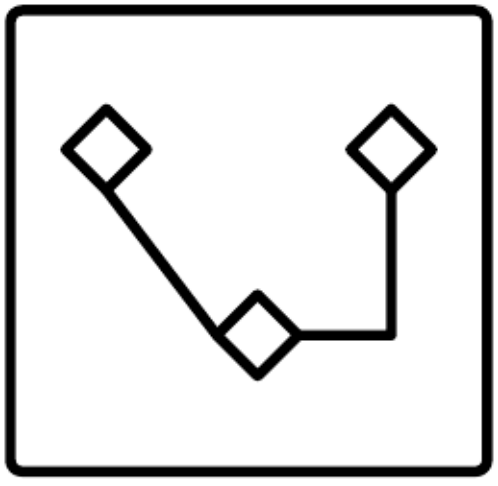
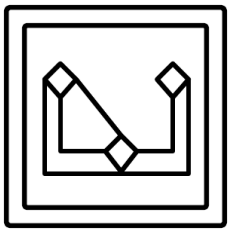
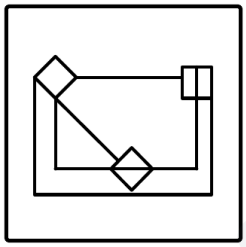


Figure X

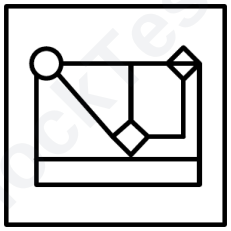
(a)



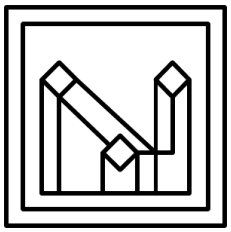
(b)



(c)



(d)



Q46. Select the option in which the words share the same relationship as that shared by the given pair of words.

Asia : China

(a) Thailand : Bangkok
(b) Asia : Antarctica
(c) Africa : Continent
(d) Asia : Malaysia

Q47. In a certain code language, ‘VARIOUS’ is coded as ‘519812254418’. How will ‘PENSION’ be coded as in that language ?

(a) 11251388122513
(b) 16251488122812
(c) 11241398122514
(d) 16551388120513

Q48. Select the option in which the numbers are related in the same way as the numbers in the given set.

(16, 88, 296)

(a) (14, 77, 385)
(b) (12, 66, 222)
(c) (20, 110, 250)
(d) (28, 140, 518)

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Q49. Four letter-cluster have been given, out of which three are alike in some manner and one is different, Select the odd letter-cluster.

(a) BDH
(b) DPT
(c) EYC
(d) CUZ

Q50. Which two numbers should be interchanged to make the given equation correct?

$7 + 24 \times 3 - 72 \div 18 = 58$

(a) 72 and 24
(b) 3 and 7
(c) 18 and 24
(d) 7 and 18

QUANTITATIVE APTITUDE

Q51. If $2a + 3b = 8$ and $ab = 5$, then find the value of $4a^2 + 9b^2$.

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

Q52. The area of the largest triangle that can be inscribed in a semi-circle of radius 4 cm in square centimetres is

(a) 14 cm^2
(b) 12 cm^2
(c) 16 cm^2
(d) 18 cm^2

Q53. Rakesh walking at the speed of 8 km/h crosses a bridge in 30 minutes. What is the length of the bridge in kilometre?

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

Q54. If $a = 355$, $b = 356$, $c = 357$, then find the value of $a^3 + b^3 + c^3 - 3abc$.

(a) 3206
(b) 3202
(c) 3204
(d) 3208

Q55. Find the value of $225 - [42 - \{25 - (18 - 18 + 13)\}]$

(a) 221
(b) 223
(c) 244
(d) 222

Q56. In how many years will a sum of Rs. 5000 yield a simple interest of Rs. 2000 at an interest rate of 10 p.a.?

(a) 5 years
(b) 4 years
(c) 3 years
(d) 6 years

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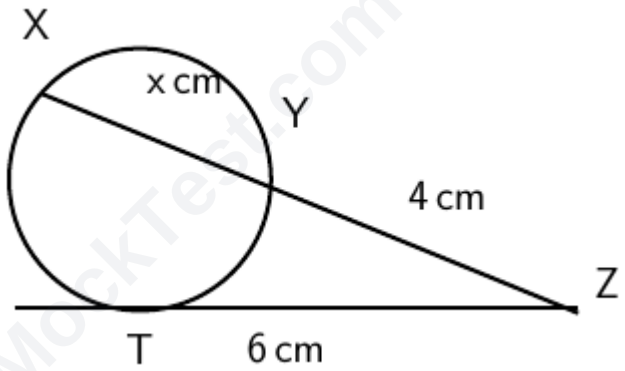
Q57. The ratio of the areas of two squares is 16 : 1. Find the ratio between their perimeters.

(a) 12 : 1
(b) 8 : 1
(c) 4 : 1
(d) 3 : 1

Q58. If sec θ - tan θ = 3, then cos θ is equal to:

(a) 4/9
(b) 3/7
(c) 2/5
(d) 3/5

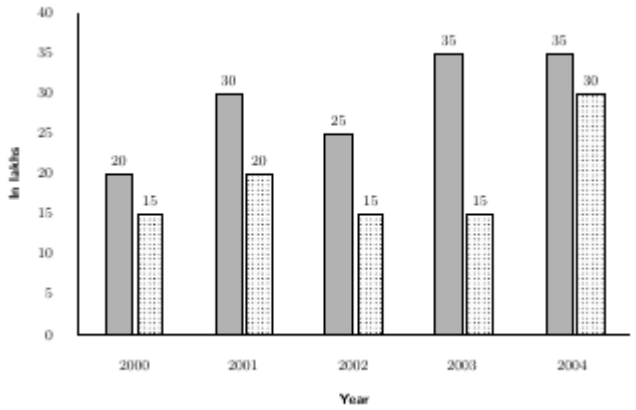
Q59. In the given figure



XYZ is a secant and ZT is a tangent. What is the value of x.

(a) 7
(b) 5
(c) 9
(d) 8

Q60. In the given bar graph, the first bar shows the income and the second bar shows the expenditure of a company. Study the graph and answer the question that follows.



The income in 2001 was equal to the expenditure in the year:

(a) 2004
(b) 2002
(c) 2003
(d) 2000

Q61. In ΔXYZ, if G is the centroid and XL is the median with a length 18 cm, then the length XG is:

(a) 12 cm
(b) 10 cm
(c) 14 cm

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(d) 16 cm

Q62. Which of the following numbers is divisible by 3?

(a) 8703541
(b) 8703593
(c) 8703572
(d) 8765001

Q63. Find the value of $(\cos^2 30° - \sin^2 30°)/(\sin^2 15° + \cos^2 15°)$

(a) 1
(b) 1/2
(c) $1 - \sqrt{3}$
(d) 0

Q64. $\tan^2 x - 3\sec^2 x + 3 = 0$, then the value of x $(0 \le x \le 90°)$ is:

(a) 60°
(b) 0°
(c) 45°
(d) 30°

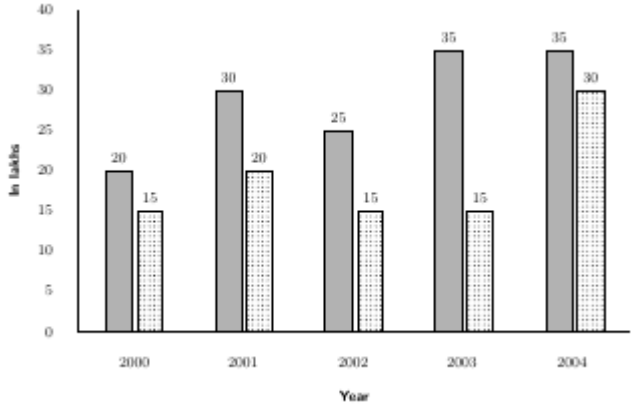
Q65. A man sold his furniture at a 25% gain. Had he sold at 15% loss. He would have received Rs. 800 less. Find cost price of the furniture.

(a) Rs. 1,500
(b) Rs. 3,000
(c) Rs. 2,000
(d) Rs 2,500

Q66. Rita's income is 15% less than Richa's income. By what percent is Richa's income more than Rita's income?

(a) 1511/17%
(b) 1411/(17)%
(c) 1711/17%
(d) 1611/17%

Q67. In the given bar graph, the first bar shows the income and the second bar shows the expenditure of a company. Study the graph and answer the question that follows.

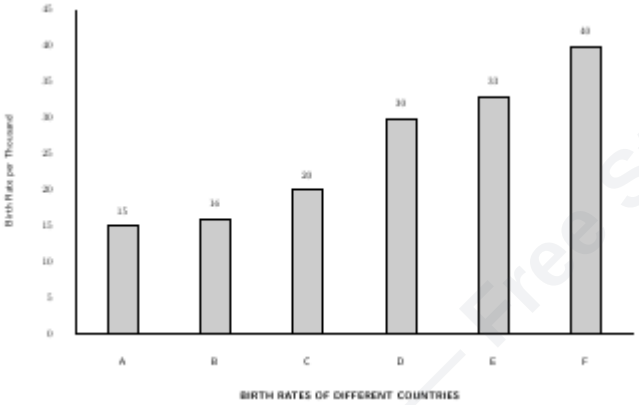


The percentage decrease in the income of the company in 2002 as compared to that in 2001 is :

(a) 211/3%
(b) 22%
(c) 18%
(d) 162/3%

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Q68. Observe the following bar graph carefully and answer the following question:



The birth rate of Country C is approximate what percentage of the birth rate of Country E ?

(a) 70%
(b) 65%
(c) 75%
(d) 60%

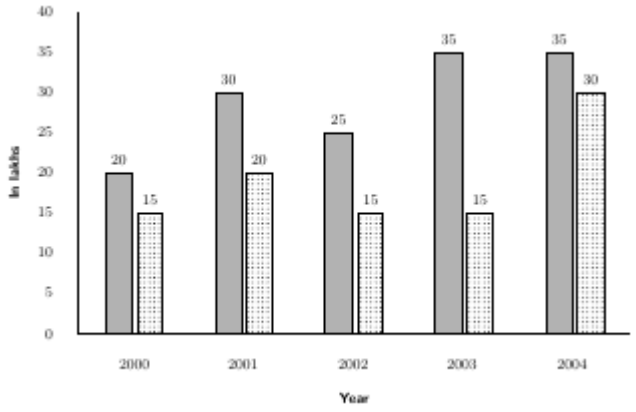
Q69. The fourth proportional to 10, 12, 15 is :

(a) 20
(b) 18
(c) 22
(d) 24

Q70. How many men will be required to plough 50 acres of land in 10 days if 15 men are required 6 days to plough 10 acres of land?

(a) 45
(b) 40
(c) 55
(d) 50

Q71. In the given bar graph, the first bar shows the income and the second bar shows the expenditure of a company. Study the graph and answer the question that follows.



The expenditure from 2001 to 2002 is decreased by what percentage?

(a) 341/3%
(b) 331/3%
(c) 25%
(d) 361/3%

Q72. Given that the mean of five numbers is 28. If one of them is excluded, the mean gets reduced by 5. Determine the excluded number.

(a) 46
(b) 47
(c) 45
(d) 48

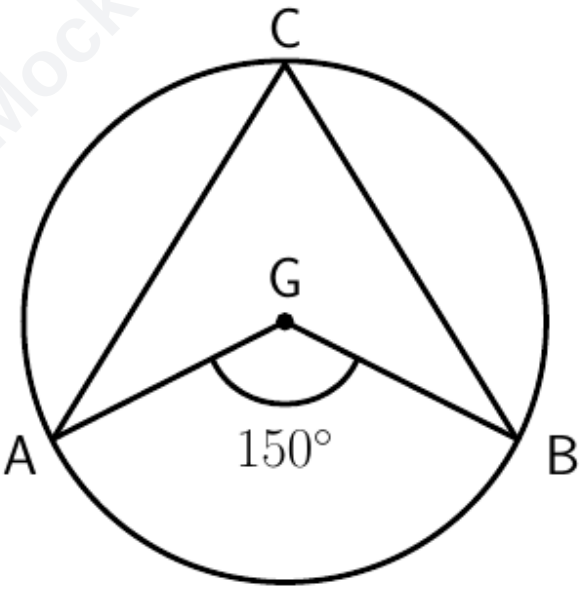
Q73. If x + y = 15 and xy = 14, then the value of x – y is :

(a) 12
(b) 14
(c) 13
(d) 11

Q74. A blanket is sold for Rs 680 at the discount of 15% and 20%. Find the printed price of the blanket.

(a) Rs. 800
(b) Rs. 950
(c) Rs. 1000
(d) Rs. 900

Q75. In the figure, G is the centre of the circle and angle AGB = 150°. Find the value of angle ACB.



(a) 60°
(b) 75°
(c) 50°
(d) 65°

GENERAL AWARENESS

Q76. Which of the following parks is India's first 'Mixed World Heritage Site' on UNESCO’s World Heritage list ?

(a) Gir National Park
(b) Khangchendzonga National Park
(c) Nagarhole National Park
(d) Kanha National Park

Q77. Which of the following group of scientists was awarded the 2019 Nobel Prize in Physiology or Medicine "for their discoveries of how cells sense and adapt to oxygen availability"?

(a) Fraser Stoddart, Jean-Pierre Sauvage and Ben Feringa
(b) Kip Thorne, Rainer Weiss and Barry Barish

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(c) William G Kaelin Jr, Sir Peter J Ratcliffe and Gregg L Semenza
(d) John B Goodenough, M Stanley Whittingham and Akira Yoshino

Q78. How many times did Mahmud of Ghazni invade India ?
(a) 5
(b) 15
(c) 17
(d) 7

Q79. Which statement best explains why Shillong gets around 200 cm rainfall annually; whereas Cherrapunji, which is around 30 km away (as the crow flies), gets over 1250 cm of rainfall annually?
(a) Cherrapunji lies on the windward side of the Khasi hills and receives rainfall from the Bay of Bengal branch of monsoon, while Shillong lies on the leeward side of the Khasi hills, which forms the rain shadow area.
(b) Cherrapunii gets rainfall from rain-laden clouds coming from the Himalayas, whereas Shillong gets rainfall from the Malabar branch of monsoon.
(c) Cherrapunji lies on the leeward side of the Khasi hills and Shillong lies on the windward side of the Khasi hills, and thus, gets only wind and no rain.
(d) The average temperature of Shillong has gone up due to excessive deforestation and pollution.

Q80. With which of the following musical instruments was the musician Palghat Mani Iyer associated?
(a) Shehnai
(b) Sitar
(c) Mridangam
(d) Flute

Q81. Which Article of the Constitution of India provides that there shall be a Council of Ministers with the Prime Minister as its head?
(a) Article 44
(b) Article 21(1)
(c) Article 34
(d) Article 74(1)

Q82. _____ is the fastest to read from and write to than the other kinds of storage in a computer.
(a) Floppy disk
(b) Hard disk
(c) CD-ROM
(d) RAM

Q83. With which of the following is 'Operation Flood' related?
(a) India’s mining industry
(b) India’s dairy industry
(c) India’s farming industry
(d) India’s poultry industry

Q84. What is Gini coefficient used for?
(a) To measure income equality
(b) To measure income inequality
(c) To measure distribution of income
(d) To measure profit and loss

Q85. As of January 2020, who was the chairperson of the National Human Rights Commission of India?
(a) Justice HL Dattu
(b) Justice Prafulla Chandra Pant
(c) Justice Pinaki Chandra Ghose
(d) Justice Cyriac Joseph

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Q86. As per Article 80 of the Constitution of India, what can be the maximum strength of Rajya Sabha ?

(a) 235
(b) 250
(c) 240
(d) 245

Q87. Among various electrical safety devices, one based on the heating effect of electric current is called a:

(a) Capacitor
(b) Surge protector
(c) Fuse
(d) Protective relay

Q88. In July 2018, a stable body of liquid water was found on Mars using a radar instrument onboard the European Space Agency's Mars Express orbiter. The tool that was used for the discovery is called:

(a) Mars Orbiter
(b) MARINER 4
(c) MARSIS
(d) Mars Hope

Q89. As of January 2020, who among the following had the distinction of having scored the most goals at a single tournament in the entire history of FIFA World Cup?

(a) Zinedine Zidane
(b) Pele
(c) Diego Maradona
(d) Just Fontaine

Q90. As of January 2020, who among the following had the distinction of having the highest career batting average in One Day Internationals?

(a) Virat Kohli
(b) Ryan ten Doeschate
(c) Sachin Tendulkar
(d) Steven Smith

Q91. When was the 120^(th) birth anniversary of Shaheed Udham Singh celebrated in India?

(a) 26 December 2019
(b) 26 September 2019
(c) 26 November 2019
(d) 26 October 2019

Q92. In which of the following states/union territories are you more likely to find the natural habitat of the one-horned rhinoceros (Indian Rhino)?

(a) Sikkim
(b) Ladakh
(c) Jammu & Kashmir
(d) Assam

Q93. _____ is a small, portable flash memory card that plugs into a computer's USB port and functions as a portable hard drive.

(a) CD-ROM
(b) Flash drive
(c) DVD-ROM
(d) CD-RW

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Q94. Which day is celebrated every year as 'World Environment Day'?

(a) 5^(th) May
(b) 5^(th) April
(c) 5^(th) June
(d) 5^(th)March

Q95. What is 'Central Equipment Identify Register'?

(a) A portal launched by the Government of India to enforce income and corporate tax compliance
(b) A portal launched by the Government of India to identify and trace the illegal activities of criminals
(c) A portal launched by the Government of India to block and trace mobile phones
(d) A portal launched by the Government of India to identify and trace the activities of illegal immigrants

Q96. Who among the following lifted the 'WTA Hobart International' tennis trophy with partner Nadiia Kichenok in January 2020?

(a) Rushmi Chakravarthi
(b) Karman Kaur Thandi
(c) Ankita Raina
(d) Sania Mirza

Q97. Who was the last Viceroy of India who oversaw the creation of the independent states of India and Pakistan?

(a) Lord Canning
(b) Lord Hastings
(c) Lord Mountbatten
(d) Lord Irwin

Q98. Which of the following is the largest delta in the world?

(a) Indus River Delta
(b) Danube Delta
(c) Ganges-Brahmaputra Delta
(d) Amazon Delta

Q99. Whose birth anniversary is celebrated as National Sports Day every year on 29 August?

(a) Dilip Sardesai
(b) PT Usha
(c) Dhyan Chand
(d) Ranjitsinhji Vibhaji Jadeja

Q100. Where is Valmiki Tiger Reserve located?

(a) Chandrapur, Maharashtra
(b) Ranthambore, Rajasthan
(c) Lakhimpur Kheri, Uttar Pradesh
(d) West Champaran, Bihar

ANSWER KEY

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

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

SOLUTIONS

Q1. Answer: (d) No improvement

The correct answer is "No improvement".

Key Points

• The given sentence is in the past continuous tense form of the active voice.

• The rule of making past continuous tense (active voice): Subject + was/were + verb (Ist form) + ing + object + (.).

• The adjective 'troubled' is acting as the object.

• Therefore, there is no need for any improvement in the underlined segment.

• Hence, the correct answer is option 4.

Q2. Answer: (b) Neeta said that she wanted to see how Pragya performed in her preboard examinations.

The correct answer is Neeta said that she wanted to see how Pragya performed in her preboard examinations.

• The given sentence is a direct speech.

• The basic rules for changing or converting direct speech into indirect speech:

• The commas and inverted commas are removed and 'that' is added.

• The first person 'me' will be changed into the third person 'she'.

• "Let me" becomes 'wanted'.

• The present simple tense format 'Subject + V1 (performs) + Object' will be changed into the past simple tense format 'Subject + V2 (performed) + Object'.

• From the following rules, we get the correct sentence as- option 2*.*

The following table will enable us to know how tense changes into Indirect speech:

Direct Speech	Indirect Speech
Present simple (Subject +V1st + Object)	Past simple (Subject +V2 + Object)
Present continuous (Subject +is/am/are+V1 +ing+ Object)	Past Continuous (Subject +was/were+V1 +ing+ Object)
Present perfect (Subject + has/have+V3+Object)	Past perfect (Subject+had+V3+Object)
Past simple (Subject+V2+Object)	Past perfect (Subject+had+V3+Object)
Past Continuous (Subject +was/were+V1 +ing+ Object)	Past perfect continuous (Subject +had been+V1 +ing+ Object)
Future simple (Subject+ will/shall+V1+object)	Present Conditional (Subject+ would+V1+object)
Future Continuous (Subject +will/shall+be+V1 +ing+ Object)	Conditional Continuous (Subject +would+be+V1 +ing+ Object)

Q3. Answer: (a) Mishap

The correct answer is "Mishap".

Key Points

• Let us explore the given options:

• Mishap means an unfortunate accident.

• Menace means a threat or danger.

• Magical means relating to, using, or resembling magic.

• Mystery means something that is difficult or impossible to understand or explain.

• Hence, the correct answer is option 1.

Q4. Answer: (d) Hamper

The correct answer is "Hamper".

Key Points

• Let us explore the given options:

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• Deprive means to prevent from having or using something.
• Indulge means to become involved in an activity.
• Facilitate means to make an action or process easy or easier.
• Hamper means to hinder or impede the movement or progress of someone or something.
• Hence, the correct answer is option 4.

Q5. Answer: (b) recorded

The correct answer is "recorded".

Key Points

• Let us explore the given options:
• 'Reaped' means received something, especially something beneficial as a consequence of one's own or another's actions.
• 'Recorded' means set down in writing or some other permanent form for later reference.
• 'Played' means engaged in an activity for enjoyment and recreation rather than a serious or practical purpose.
• 'Responded' means said something in reply.
• Hence, the correct answer is option 2.

Q6. Answer: (c) growth

The correct answer is "growth".

Key Points

• Let us explore the given options:
• 'Health' means a mental or physical condition.
• 'Wealth' means an abundance of valuable possessions or money.
• 'Growth' means the process of increasing in size.
• 'Slowdown' means an act of slowing down.
• Hence, the correct answer is option 3.

Q7. Answer: (d) rose

The correct answer is "rose".

Key Points

• The given sentence is in the simple past tense and will take a past tense form of the verb.
• Let us explore the given options:
• 'Had risen' is the past perfect form of the verb.
• 'Is rise' is the simple present form of the verb.
• 'Rises' is the third-person present form of the verb.
• 'Rose' is the past tense form of the verb.
• Hence, the correct answer is option 4.

Q8. Answer: (c) directly

The correct answer is "directly".

Key Points

• Let us explore the given options:
• 'Deftly' means in a clever way.
• 'Decently' means in a way that conforms with generally accepted standards of respectable or moral behaviour.
• 'Directly' means with nothing or no one in between.
• 'Dutily': This word doesn't have any meaning or existence.
• Hence, the correct answer is option 3.

Q9. Answer: (c) attractive

The correct answer is "attractive".

Key Points

• Let us explore the given options:
• 'Unattractive' means not pleasing or appealing to look at.
• 'Impossible' means not able to occur, exist, or be done.
• 'Attractive' means relating to the attraction between physical objects.

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• 'Possible' means able to be done or achieved.
• Hence, the correct answer is option 3.

Q10. Answer: (c) Implicatted

The correct answer is "Implicatted".

Key Points

• Let us explore the options:
• 'Pressurised' means an attempt to persuade or coerce someone into doing something.
• 'Suppression' means the action of forcibly put an end to something.
• 'Implicatted': There is no such word in English or we can say that there is some spelling mistake in this word.
• 'Coercion' means the practice of persuading someone to do something by using force or threats.
• Hence, the correct answer is option 3.

Additional Information

• If we remove the letter 't' between 't' and 'e' then it will become a meaningful word 'Implicated' which means to show someone to be involved in a crime.

Q11. Answer: (a) The neighbourhood were getting disturbed

The correct answer is "The neighbourhood were getting disturbed".

Key Points

• In the given sentence, the plural form of the verb 'were' is incorrect.
• The subject of the sentence 'neighbourhood' is a singular form of the noun.
• But, the verb 'were' used with the singular subject is plural in form.
• We know that subjects and verbs must agree with one another in number (singular or plural).
• Thus, if a subject is singular, its verb must also be singular; if a subject is a plural, its verb must also be plural.
• Therefore, the singular past verb 'was' should be used in place of 'were'.
• Hence, the correct answer is option 1.

Correct Sentence: The neighbourhood was getting disturbed with the loud music that was playing at the wedding party in the big bungalow.

Q12. Answer: (b) Scattered

The correct answer is "Scattered".

Key Points

• The word 'Interspersed' means to scatter or set here and there among other things.
• The synonyms of the word 'Interspersed' are "scattered, mingled, mixed".
• From the synonym of the given word, we can say that the word 'Scattered' is the same in meaning.
• The word 'Scattered' means occurring or found at intervals or various locations rather than all together.

Hence, the correct answer is option 2. Let's see the meaning of other given options-

WORDS	MEANING
Collected	bring or gather together a number of things
Wore	damage, erode or destroy by friction or use
Met	arrange or happen to come into the presence or company of someone

Additional Information

• The antonyms of the word 'Interspersed' are "extracted, withdrew, detached".
• Example of 'Interspersed' in a sentence:
• Tragic musical compositions were interspersed with moments of silence.

Q13. Answer: (a) that you are going

The correct answer is "that you are going".

Key Points

• In the given sentence, the past form of the verb 'would' is incorrect.
• The given sentence is in the present continuous tense.

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• The present continuous tense is used to show that an action is going to take place in the near future.
• The present continuous is formed using am/is/are + present participle (V+ing).
• Therefore, the second person singular present form of the verb 'are' should be used in place of 'would'.
• Hence, the correct answer is option 1.

Correct Sentence: "Did you tell your parents that you are going to a movie with me this evening?" My friend asked me.

Q14. Answer: (c) BADC

The correct answer is "BADC".

Key Points

• The sentence 'B' is independent of any other sentences as it is giving general information about "North India". Hence, 'B' is the first part.
• The phrase "minimum temperature" in the sentence 'A' is linked with the 'harsh winter' mentioned in the sentence 'B'. Hence, 'A' follows 'B'.
• The phrase 'wind factor' mentioned in the sentence 'D' is linked with the 'winds' mentioned in the sentence 'A'. Hence, 'D' follows 'A'.
• The sentence 'C' is the concluding sentence. Hence, the sentence 'C' is the last sentence.

After rearranging the sentences: North India has been witnessing a harsh winter this year. The minimum temperature in the national capital dropped yesterday as cold northwesterly winds continued to blow in from the hills. A favourable outcome of the wind factor was that there was a slight decrease in air pollution levels due to the wind speeds. However, experts said the minimum temperatures would increase over the next few days due to a cloud cover.

Important Points

• Important Rules to Solve the Para Jumbles:
• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.
• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).
• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q15. Answer: (c) Irational

The correct answer is "Irational".

Key Points

• Let us explore the options:
• 'Escalation' means a rapid increase.
• 'Irritable' means having or showing a tendency to be easily annoyed.
• 'Irational': There is no such word in English or we can say that there is some spelling mistake in this word.
• 'Appreciation' means recognition and enjoyment of the good qualities of someone or something.
• Hence, the correct answer is option 3.

Additional Information

• If we add the letter 'r' between 'I' and 'r' then it will become a meaningful word 'Irrational' which means not logical or reasonable.

Q16. Answer: (b) delayed

The correct answer is "delayed".

Key Points

• Let us explore the given options:
• 'Built' means constructed something by putting parts or material together.
• 'Delayed' means postponed or defer action.
• 'Broken' means having breaks or gaps in continuity.
• 'Repaired' means restored something damaged, faulty, or worn to a good condition.
• Hence, the correct answer is option 2.

Complete Sentence: The flyover was closed in October last year for repairs but its reopening has been delayed as it will be ready only in March this year.

Q17. Answer: (a) Planned

The solution is in Hindi. Read it online.

Q18. Answer: (b) Strong

The correct answer is "Strong".

Key Points

• The word 'Fragile' means easily broken or damaged.

• The antonyms of the word 'Fragile' are "strong, sturdy, tough".

• From the antonym of the given word, we can say that the word 'Strong' is opposite in meaning.

• The word 'Strong' means able to withstand hardship, strain, or exposure.

Hence, the correct answer is option 2. Let's see the meaning of other given options-

WORDS	MEANING
Fast	moving or capable of moving at high speed
Slow	lasting or taking a long time
Fancy	elaborate in structure or decoration

Additional Information

• The synonyms of the word 'Fragile' are "breakable, delicate, frangible".

• Example of 'Fragile' in a sentence:

• The carbon fibre obtained was partially melted and was too fragile to handle.

Q19. Answer: (b) Admit that you are wrong

The correct answer is "Admit that you are wrong".

Key Points

• Given Idiom: Eat humble pie means to admit an error and become submissive and apologetic in doing so.

• For example, But, by making the critics eat humble pie, he's on the front foot.

• From the given options, the second option is the most appropriate meaning of the given idiom.

Hence, the correct answer is Admit that you are wrong.

Mistake Points

• We may think from the phrase "Eat humble pie" and the options that it is all about to eat a pie, but the correct answer is option 2. So be careful while dealing with such questions.

Additional Information

• The idiom/phrase originates from: In the United Kingdom, what is known as offal meat which is the liver, heart, entrails of an animal was known as numbles in the early 14th century. Speculation is that the pies made from numbles eventually come to know umbles through metanalysis (the process of change in the sound and the use of a word in the English language). Since 1330 the mention of umble pies is common. Samuel Pepys used it in his diary at least on two occasions.

Q20. Answer: (c) so it was a bit scared

The correct answer is "so it was a bit scared".

Key Points

• In the given sentence, the adjective 'scared' used is incorrect.

• 'Scared' is an adjective used to describe a person or maybe an animal that is frightened or worried.

• 'Scary' is an adjective used to describe something or someone that causes fear or terror.

• Therefore, the adjective 'scary' should be used in place of 'scared'.

• Hence, the correct answer is option 3.

Correct Sentence: The park was well lighted at night but it was deserted, so it was a bit scary.

Q21. Answer: (a) To be ignored

The correct answer is "To be ignored".

Key Points

• Given Idiom: To fall on deaf ears means to be ignored or disregarded.

• For example, Criticisms of these practices used to fall on deaf ears.

• From the given options, the first option is the most appropriate meaning of the given idiom.

• Hence, the correct answer is option 1.

Mistake Points

• We may think from the phrase "To fall on deaf ears" and the options that it is all about falling off something on deaf ears, but the

correct answer is option 1. So be careful while dealing with such questions.

Additional Information

• The idiom/phrase originates from: The expression most often refers to something a person does not wish to hear, such as a reproach or advice, and therefore he or she reacts as though physically unable to hear it. The term dates from the fifteenth century and has been a cliche since the nineteenth century.

Q22. Answer: (a) CADB

The correct answer is "CADB".

Key Points

• The sentence 'C' is independent of any other sentences as it is giving general information about "The state of Jharkhand". Hence, 'C' is the first part.

• The phrase "this state" in the sentence 'A' refers back to the 'state of Jharkhand' mentioned in the sentence 'C'. Hence, 'A' follows 'C'.

• The phrase "These forests" mentioned in the sentence 'D' refers back to the 'Saranda forests' mentioned in the sentence 'A'. Hence, 'D' follows 'A'.

• The sentence 'B' is the concluding sentence. Hence, the sentence 'B' is the last sentence.

After rearranging the sentences: The state of Jharkhand faces water scarcity every summer. Saranda forests, in Singhbum, are a huge catchment for rivers and streams in this state. These forests are India's largest contiguous Sal forests and the current plan says mining should not be allowed in the dense forest as rivers are drying up. If these forests are opened up for mining purposes the remaining rivers and streams will dry up.

Important Points

• Important Rules to Solve the Para Jumbles:

• Read the sentences attentively and try to comprehend the idea or theme of the sentence and eliminate the irrelevant options.

• Try to identify the opening (independent sentence) and closing sentences (concluding sentence).

• Try to identify the mandatory pairs. Two sentences can be connected through various connectors and other determinants.

Q23. Answer: (b) Acted

The solution is in Hindi. Read it online.

Q24. Answer: (b) Diamonds can be bought but sympathy cannot be bought.

The correct answer is "Diamonds can be bought but sympathy cannot be brought".

Key Points

• The given sentence is made up of two parts:

• We can buy diamonds

• We cannot buy sympathy

• Both the sentence use a modal verb 'can'. The structures for active/passive voices for modal verbs are:

• Active: Subject + Modal verb + Verb (Ist form) + Object

• Passive: Object + Modal verb + be + Verb (IIIrd form) + by + Subject

• With the help of the above structures, we can convert the given sentences into passive voices:

• Diamonds can be bought

• Sympathy cannot be bought

• Now, if we combine these two sentences, the complete sentence would be:

• Diamonds can be bought but sympathy cannot be bought.

• Hence, the correct answer is option 2.

Q25. Answer: (d) audiences

The correct answer is "audiences".

Key Points

• Let us explore the given options:

• 'Personalities' means the lively, engaging qualities.

• 'Politics' means the activities associated with the governance of a country or area.

• 'Accountants' means people whose job is to keep, inspect, and analyse financial accounts.

• 'Audiences' means the assembled spectators or listeners at a public event such as a play, film, concert, or meeting.

• Hence, the correct answer is option 4.

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Complete Sentence: Today's audiences are only interested in watching movies with the stories they can relate to the cinema.

Q26. Answer: (d) [figure]

The pattern followed here is:

The shaded part shifts right side while the line in second row shifts left side.

Hence, the figure in option 4 is the correct answer.

Q27. Answer: (a) Only conclusion I and II follow.

The least possible Veen diagram for the given statement is :

I. Some jugs are bottles → True (as, all bottle are jugs and some jugs are glasses)

II. Some glasses are jugs → True (Some jugs are glasses)

III. All glasses are bottles → False (It is possible but not definite)

Hence, only conclusion I and II follow.

Q28. Answer: (d) [figure]

The mirror image would be as follows :

Hence, the figure in option 4 is the correct answer.

Q29. Answer: (b) 7

The number of triangles in the given figure is :

So, there are 7 triangles in the given figure.

Hence, '7' is the correct answer.

Q30. Answer: (a) VRKSJQL

The positions of the letters according to the English alphabet series :

The pattern followed here is :

Similarly,

Hence, 'VRKSJQL' is the correct answer.

Q31. Answer: (b) 21 years

Let, the age of Y is 'a'

The age of X is 'a + 5'

The total of the current age of X and Y is :

X + Y = 33

a + 5 + a = 33

2a = 33 - 5

2a = 28

a = 28 ÷ 2

a = 14

So, the present age of Y is 14.

After 7 year age is Y is 14 + 7 = 21

Hence, '21' is the correct answer.

Q32. Answer: (d) Oslo

1) Yuan is currency of China.

2) Dollar is currency of USA.

3) Dinar is currency of Kuwait.

4) Oslo is the capital of Norway.

Hence, 'Oslo' is odd among all.

Q33. Answer: (a) 1, 5, 3, 4, 2

The life stage of a person is first the newborn child is Infant then the childhood gets started after childhood the Adolescent start which is between 13 to 18 year and then Adulthood started then the final stage is old age.

1) Infant

5) childhood

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3) Adolescent

4) Adult

2) Old age

Hence, '1, 5, 3, 4, 2' is the correct answer.

Q34. Answer: (c) [figure]

All postgraduate should be graduate first but sisters may be graduates or post-graduates.

So, the Venn diagram for the relation is :

Hence, the figure in option (3) is the correct answer.

Q35. Answer: (d) 667

Logic : The first number get multiply by their next prime number.

The pattern followed here is :

11 × 13 = 143

Similarly,

23 × 29 = 667

Hence, '667' is the correct answer.

Q36. Answer: (b) [figure]

The paper when unfolded looks like,

Hence, the figure in option 2 is the correct answer.

Q37. Answer: (a) NTS

The positions of letters according to the English alphabet series :

The pattern followed here is :

Similarly,

Hence, 'NTS' is the correct answer.

Q38. Answer: (c) Gold

Basic material to make curtain is cloth.

Similarly

Basic material to make ornament is gold.

Hence, 'Gold' is the correct answer.

Q39. Answer: (c) ALUUA

Checking the given options:

1) LKUK/ LAAK/ LAUK/ LLUK (Does not follow any pattern)

2) LAUK/UAUK/ LAAK/ LLUK (Does not follow any pattern)

3) LAUK/ LAUK/ LAUK/ LAUK (Follow the pattern)

4) LLUK/ UAUK/ LAAK/ LLUK (Does not follow any pattern)

Hence, 'ALUUA' is the correct answer.

Q40. Answer: (a) Mother-in-law

Preparing the family tree using the following symbols,

Vikas's wife's sister's mother is Sunita means Sunita is the mother of Vikas's wife

So, Sunita is the mother in law of Vikas.

Hence, 'Mother in law' is the correct answer.

Q41. Answer: (d) (3, 30, 12)

Logic: The cube of the first number get increased by 3 to get the second number and the first number is multiplied by the next number according to number series.

The pattern followed here is:

$4^3 \rightarrow 64$

64 + 3 = 67

4 × 5 = 20

Similarly,

$3^3 \rightarrow 27$

27 + 3 = 30

3 × 4 = 12

Hence, '(3, 30, 12)' is the correct answer.

Q42. Answer: (d) 349

The pattern followed here is :

Hence, '349' is the correct answer.

Q43. Answer: (d) E

Given,

From the given figure, D is adjacent to A, C, B and F.

So, D is opposite to E

Hence, 'E' is the correct answer.

Q44. Answer: (b) 22 : 166

Logic : In all option when second number is divide by first number gives 8 except option (2).

By checking the options:

1) 25 : 200

200 ÷ 25 = 8

2) 22 : 166

166 ÷ 22 =7.54

3) 14 : 112

112 ÷ 14 = 8

4) 15 : 120

120 ÷ 15 = 8

Hence, '22 : 166' is odd among all.

Q45. Answer: (d) [figure]

The question figure is embedded in,

Hence, the figure in option (4) is the correct answer.

Q46. Answer: (d) Asia : Malaysia

Asia is a continent and China is a country in Asia continent.

Similarly,

Asia is continent and Malaysia is a country in Asia continent.

Hence, 'Asia: Malaysia' is the correct answer.

Q47. Answer: (a) 11251388122513

According to the English Alphabet series and its positional value;

The pattern followed here is;

Vowels are getting square

For example, E = 5, will be written as 25

Consonants are getting an opposite number of alphabet series:

For example, B = 2, will be written as 25(opposite)

VARIOUS is coded as

V = 22 (consonant) = 5

A = 1 (vowel) = 1

R = 18 (consonant) = 9

I = 9 (vowel) = 81

O = 15 (vowel) = 225

U = 21 (vowel) = 441

S = 19 (consonant) = 8

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Code is = 519812254418

Similarly,

P = 16 (consonant) = 11

E = 5 (vowel) = 25

N = 14 (consonant) = 13

S = 19 (consonant) = 8

I = 9 (vowel) = 81

O = 15 (vowel) = 225

N = 14 (consonant) = 13

Hence, the code for PENSION will be 11251388122513

Q48. Answer: (b) (12, 66, 222)

The pattern followed here is :

16, 88, 296

16 ÷ 4 = 4

88 ÷ 4 = 22

296 ÷ 4 = 74

Similarly in option (2)

12, 66, 222

12 ÷ 3 = 4

66 ÷ 3 = 22

222 ÷ 3 = 74

Hence, (12, 66, 222) is the correct answer.

Q49. Answer: (d) CUZ

The positions of letters according to the English alphabet series:

1) BDH

B × 2 (positional value of B) → D ; D + 4 → H

2) DPT

D × 4 (positional value of D) → P ; P + 4 → T

3) EYC

E × 5 (positional value of E) → Y ; Y + 4 → C

4)CUZ

C × 3 (positional value of C) → I ≠ U; U + 5 → Z

Hence, 'CUZ' is odd among all.

Q50. Answer: (c) 18 and 24

Checking the given options :

1) 72 and 24

Given equations :

7 + 24 × 3 – 72 ÷ 18 = 58

After interchange the positions of the numbers according to the options.

7 + 72 × 3 – 24 ÷ 18 = 58

7 + 72 × 3 – 1.33 = 58

7 + 216 – 1.33 = 58

223 - 1.33 = 58

221.67 ≠ 58

2) 3 and 7

7 + 24 × 3 – 72 ÷ 18 = 58

After interchange the positions of the numbers according to the options.

3 + 24 × 7 – 72 ÷ 18 = 58

3 + 24 × 7 – 4 = 58

3 + 168 – 4 = 58

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171 - 4 = 58
167 ≠ 58
3) 18 and 24
7 + 24 × 3 – 72 ÷ 18 = 58
After interchange the positions of the numbers according to the options.
7 + 18 × 3 – 72 ÷ 24 = 58
7 + 18 × 3 – 3 = 58
7 + 54 – 3 = 58
61 - 3 = 58
58 = 58
4) 7 and 18
7 + 24 × 3 – 72 ÷ 18 = 58
After interchange the positions of the numbers according to the options.
18 + 24 × 3 – 72 ÷ 7 = 58
18 + 24 × 3 – 10.28 = 58
18 + 72 – 10.28 = 58
90 -10.28
79.72 ≠ 58
Hence, '18 and 24' is the correct answer.

Q51. Answer: (d) 4

Shortcut Trick
Use the direct algebraic identity: $(2a + 3b)^2 = 4a^2 + 9b^2 + 12ab$
Substitute the given values: $8^2 = (4a^2 + 9b^2) + 12 \times 5$
$64 = (4a^2 + 9b^2) + 60$
$4a^2 + 9b^2 = 64 - 60 = 4$
Therefore The correct answer is 4.
Alternate Method
Given:
=> 2a + 3b = 8
=> ab = 5
Formula Used:
=> $(x + y)^2 = x^2 + y^2 + 2xy$
Calculations:
=> Taking the square on both sides of the equation 2a + 3b = 8:
=> $(2a + 3b)^2 = 8^2$
=> $(2a)^2 + (3b)^2 + 2 \times (2a) \times (3b) = 64$
=> $4a^2 + 9b^2 + 12ab = 64$
=> Now, substitute the value of ab = 5 into the equation:
=> $4a^2 + 9b^2 + 12 \times 5 = 64$
=> $4a^2 + 9b^2 + 60 = 64$
=> $4a^2 + 9b^2 = 64 - 60$
=> $4a^2 + 9b^2 = 4$
Therefore The correct answer is 4.
Additional Information
Square of a Sum
$(x + y)^2 = x^2 + 2xy + y^2$. This identity relates the sum of two terms to their individual squares and their product.
Square of a Difference
$(x - y)^2 = x^2 - 2xy + y^2$. Useful for finding the difference of squares when the product is known.
Difference of Squares
$x^2 - y^2 = (x - y)(x + y)$. A fundamental identity used for factorizing algebraic expressions.
Relation between Identities

$(x + y)^2 - (x - y)^2 = 4xy$. This connects the sum and difference squares directly with the product of the variables.

Q52. Answer: (c) 16 cm²

Given:

Radius of semi-circle = 4 cm

Formula used:

Area of triangle = (1/2) × Base × Height

Calculations:

The largest triangle that can be inscribed in a semi-circle will have a base equal to the diameter and a height equal to the radius of the semi-circle.

Base = 2 × R = 8 cm

Height = R = 4 cm

Area of the triangle = (1/2) × 8 × 4

=> 4 × 4

=> 16 cm²

Therefore The area of the largest triangle that can be inscribed in the semi-circle is 16 cm2

Q53. Answer: (d) 4 km

Given:

Speed of Rakesh = 8 km/h

Time taken by Rakesh to cross the bridge = 30 minutes = (1/2) hours

Formula used:

Speed = Distance/Time

Calculations:

Let the length of the bridge be l

=> 8 = l/(1/2)

=> l = 8 × (1/2)

=> l = 4 km

Therefore The length of the bridge is 4 km

Q54. Answer: (c) 3204

Given:

a = 355

b = 356

c = 357

Formula used:

a3 + b3 + c3 - 3abc = (1/2) × (a + b + c) × [(a – b)2 + (b – c)2 + (c – a)2]

Calculations:

a3 + b3 + c3 - 3abc = (1/2) × (355 + 356 + 357) × [(355 – 356)2 + (356 – 357)2 + (357 – 355)2]

=> (1/2) × (1068) × (1 + 1 + 4)

=> 534 × 6

=> 3204

Therefore The value of a3 + b3 + c3 - 3abc is 3204

Q55. Answer: (a) 221

Given:

225 - [42 - {25 - (18 - 18 + 13)}]

Calculations:

Solving the given equation,

225 - [42 - {25 - (18 - 18 + 13)}]

=> 225 – [42 – {25 – (18 – 31)}]

=> 225 – [42 – {25 – (-13)}]

=> 225 – [42 – {25 + 13}]

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=> 225 – [42 – (38)]
=> 225 – 4
=> 221
Therefore The value of the given equation is 221

Q56. Answer: (b) 4 years

Given:
Sum = Rs. 5000
Simple interest = Rs. 2000
Rate of interest = 10%
Formula used:
SI = (P × R × T)/100
Calculations:
Let the sum be invested for T years
=> 2000 = (5000 × 10 × T)/100
=> 2000 = 500T
=> T = 20/5
=> T = 4 years
Therefore The sum of Rs. 5000 earns a simple interest of Rs. 2000 in 4 years

Q57. Answer: (c) 4 : 1

Given:
The ratio of the areas of two squares = 16 : 1
Formula used:
Area of square = (Side of the square)²
The perimeter of square = 4 × (Side of the square)
Calculations:
Let the side of the two squares be a and b respectively
The ratio of the areas of two squares
=> $a^2 : b^2 = 16 : 1$
=> a : b = 4 : 1
The ratio of the perimeter of two squares
=> 4a : 4b = (4 × 4) : (4 × 1)
=> 16 : 4
=> 4 : 1
Therefore The ratio of the perimeter of two squares is 4 : 1

Q58. Answer: (d) 3/5

Given :
Sec θ - tan θ = 3
Formula used :
$Sec^2\theta - tan^2\theta = 1$ or (sec θ - tan θ) × (Sec θ + tan θ) = 1
Calculations :
(sec θ - tan θ) (sec θ + tan θ) = 1
sec θ + tan θ = 1/3 ....(1)
sec θ - tan θ = 3 ....(2) (given)
Solving equ (1) and (2)
=> Sec θ = 10/6 = 5/3
=> cos θ = 3/5 (cos θ = (1/sec θ)
Therefore Cos θ = 3/5

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Q59. Answer: (b) 5

Shortcut Trick

Using the Tangent-Secant Theorem: $ZT^2 = ZY \times ZX$

Given: ZT = 6, ZY = 4, and YX = x

$6^2 = 4 \times (4 + x)$

$36 = 4 \times (4 + x) \Rightarrow 9 = 4 + x$

x = 5

Therefore The correct answer is 5.

Alternate Method

Given:

Length of tangent ZT = 6

Length of external secant part ZY = 4

Length of internal secant part YX = x

Formula Used:

According to the Tangent-Secant Theorem, if a tangent segment and a secant segment are drawn to a circle from an exterior point, then the square of the measure of the tangent segment is equal to the product of the measures of the secant segment and its external secant part.

$ZT^2 = ZY \times ZX$

Calculations:

=> Total length of secant ZX = ZY + YX

=> ZX = 4 + x

=> Applying the theorem: $ZT^2 = ZY \times (ZY + YX)$

=> $6^2 = 4 \times (4 + x)$

=> 36 = 16 + 4x

=> 4x = 36 − 16

=> 4x = 20

=> x = 20 ÷ 4

=> x = 5

Therefore The correct answer is 5.

Additional Information

Tangent-Secant Theorem

For a tangent segment ZT and a secant segment ZXY, the relation is $ZT^2 = ZY \times ZX$.

Intersecting Chords Theorem

If two chords AB and CD intersect at a point P inside a circle, then PA × PB = PC × PD.

Tangent-Radius Property

A tangent at any point of a circle is perpendicular to the radius through the point of contact (OT perpendicular to ZT).

Q60. Answer: (a) 2004

Given :

A bar graph with income and expenditure of the company

Calculations :

Income of year 2001 = 30 lakhs

Expenditure of 2000 = 15

Expenditure of 2001 = 20

Expenditure of 2002 = 15

Expenditure of 2003 = 15

Expenditure of 2004 = 30

According to question, we need to find expenditure of which year equal to income of year 2001

Expenditure of year 2004 = income of the year 2001 = 30 lakhs

Therefore Expenditure of 2004 is equal to the income of 2001

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Q61. Answer: (a) 12 cm

Given :

XL is the centroid of a triangle XYZ and G is the centroid of the median

Concept used :

In a triangle ABC if a median AD is drawn from A to side C, then centroid G divides the AD in the ratio 2 : 1

Calculations :

XL = XG + GL

XG: GL = 2: 1 (G is the centroid)

=> XG = (2/3) of XL

=> XG = (2/3) × 18

=> XG = 12

Therefore XG is 12 cm.

Q62. Answer: (d) 8765001

Concept used :

If the sum of digits of a number is divisible by 3, then the number is also divisible by 3

Calculations :

Sum of digits

1st option = 8 + 7 + 0 + 3 + 5 + 4 + 1 = 28

2nd option = 8 + 7 + 0 + 3 + 5 + 9 + 3 = 35

3rd option = 8 + 7 + 0 + 3 + 5 + 7 + 2 = 32

4th option = 8 + 7 + 6 + 5 + 0 + 0 + 1 = 27

We can check that only 27 is the multiple of 3

Therefore Option 4 is the only option divisible by 3

Q63. Answer: (b) 1/2

Formula used :

$\sin^2\theta + \cos^2\theta = 1$

$\sin 30° = 1/2$ and $\cos 30° = \sqrt{3}/2$

Calculations :

$\cos^2 30° - \sin^2 30° = (\sqrt{3}/2)^2 - (1/2)^2$

=> (3/4) - (1/4) = 1/2

$\sin^2 15° + \cos^2 15° = 1$

=> $(\cos^2 30° - \sin^2 30°)/(\sin^2 15° + \cos^2 15°) = (1/2)/1 = 1/2$

Therefore value of the asked equation is 1/2

Additional Information

Q64. Answer: (b) 0°

Given:

$\tan^2 x - 3\sec^2 x + 3 = 0$

Formula used :

$\sec^2 x = 1 + \tan^2 x$

Calculations :

$\tan^2 x - 3\sec^2 x + 3 = 0$

put $\sec^2 x = 1 + \tan^2 x$

=> $\tan^2 x - 3(1 + \tan^2 x) + 3 = 0$

=> $\tan^2 x - 3 - 3\tan^2 x + 3 = 0$

=> $-2\tan^2 x = 0$

=> $\tan^2 x = 0$

=> $\tan x = 0$ ($\tan x = 0$, when $x = 0°$)

Therefore x will be 0°

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Q65. Answer: (c) Rs. 2,000

Given :

A man sold his furniture at 25% gain.

Had he sold at 15% loss he would have received Rs.800 less

Concept used :

Profit = selling price - cost price = profit % on cost price

Loss = cost price - selling price = loss % on cost price

Calculations :

Let the cost price of the item be 100x

Selling price at 25% profit = cost price + profit

=> cost price + 25% of 100x

=> 100x + 25x = 125x

Selling price at 15% loss = cost price - loss

=> 100x - 15% of 100x

According to the question

125x - 85x = 800

=> 40x = 800

=> x = 20

=> cost price = 100x

=> 100 × 20 = 2000 rupees

Therefore Cost price of the furniture is 2000 rupees

Q66. Answer: (c) 1711/17%

Given:

Rita’s income is 15% less than Richa’s income

Calculation:

Let Richa’s income be 100

=> Rita's income is 85

=> Richa’s income is 15 more than Rita’s income.

=> Percent of Richa’s income more than Rita’s income = 100 × 15/85 = 17 11over 17 %

Q67. Answer: (d) 162/3%

Given:

Income in 2001, 2002 is 30, 25 lakhs respectively

Formula Used:

Percentage Difference = 100 × Difference/Initial amount

Calculation:

=> Decreased amount = 30 – 25 = 5 lakhs

Therefore Percentage Difference = 100 × 5/30 = 16 2over3 %

Q68. Answer: (d) 60%

Given:

The birth rate of Country C = 20

The birth rate of country E = 33

Calculation:

Required percentage = (20/33) × 100

=> 60.61% ≈ 60%

Therefore The birth rate of Country C is approximately 60% of the birth rate of Country E.

Q69. Answer: (b) 18

Shortcut Trick

For three numbers a, b, and c, the fourth proportional is given by (b × c) ÷ a.

Here, a = 10, b = 12, and c = 15.

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Fourth proportional = (12 × 15) ÷ 10 = 180 ÷ 10 = 18.
Therefore The correct answer is 18.
Alternate Method
Given: Three numbers are 10, 12, and 15.
Formula Used: If a, b, c, and d are in proportion, then a : b = c : d or a × d = b × c.
=> Let the fourth proportional be x.
=> 10 : 12 :: 15 : x
=> 10 ÷ 12 = 15 ÷ x
=> 10 × x = 12 × 15
=> 10 × x = 180
=> x = 180 ÷ 10
=> x = 18
Therefore The correct answer is 18.
Additional Information
Mean Proportional
The mean proportional between two numbers a and b is defined as √(a × b).
Third Proportional
For two numbers a and b, the third proportional c is such that a : b :: b : c, calculated as c = b^2 ÷ a.
Rule of Proportion
In any proportion a : b :: c : d, the product of the extremes (a × d) is always equal to the product of the means (b × c).

Q70. Answer: (a) 45

Given:
15 men required 6 days to plough 10 acres of land
Formula Used:
M-1D1/W1 = M-2D2/W2
Calculation:
=> M-1= 15, D1= 6, W1 = 10
=> M-2=? ,D2= 10, W2= 50
=> 15 × 6/10 = M2 × 10/50
=> M2 = 45
Therefore The total men required is 45

Q71. Answer: (c) 25%

Formula Used:
Percentage decrease = (x1 - x2)/x1× 100
x1 → Original number
x2 → New number
Calculation:
Expenditure in 2001 = 20 lakhs
Expenditure in 2002 = 15 lakhs
Decrement = 20 - 15 = 5 lakhs
Therefore Required percentage = (5/20) × 100 = 25%

Q72. Answer: (d) 48

Given:
The mean of 5 numbers is 28
One number is excluded so mean decreased by 5 i.e. 23
Formula Used:
Sum of numbers = Mean × No. of numbers
Calculation:
=> Sum of the 5 numbers = 5 × 28 = 140
Mean of 4 numbers is 23

=> Sum of the remaining four numbers = 4 × 23 = 92

Therefore Excluded number = 140 – 92 = 48

Q73. Answer: (c) 13

Given:

x + y = 15, xy = 14

Formula Used:

$(x – y)^2 = (x + y)^2 – 4xy$

Calculation:

$=> (x – y)^2 = (15)^2 – 4 × 14 = 225 – 56 = 169$

Therefore x – y = 13

Q74. Answer: (c) Rs. 1000

Given:

Selling price of blanket = Rs 680

Discount = 15% and 20%

Formula Used:

Printed price = Selling price × [100/(100 – discount%)]

Calculation:

Printed price = Selling price × [100/(100 – discount%)]

=> 680 × [100/(100 – 15)] × [100/(100 – 20)]

=> 680 × (100/85) × (100/80)

=> 1000

Therefore The printed price of the blanket is Rs 1000

Q75. Answer: (b) 75°

Given:

angle AGB = 150°

Concept:

The angle made by the chord at centre is double the angle made by it in a major segment of the circle.

Calculation:

angle AGB = 2 × angle ACB

=> 150° = 2 × angle ACB

=> angle ACB = 75°

Therefore The value of angle ACB is 75°.

Q76. Answer: (b) Khangchendzonga National Park

The correct answer is Khangchendzonga National Park.

Key Points

• The Khangchendzonga National Park is a biosphere reserve, national park and India's first mixed World Heritage site located in Sikkim.

• The park gets its name from the mountain Kanchenjunga.

• Gir National Park is known for its Asiatic Lions.

• It is located in the Gujarat state of India.

• Nagarhole National Park is located in the Mysore and Kodagu districts of Karnataka.

• Kanha National Park is nestled in the Maikal range of Satpuras in Madhya Pradesh.

• Tigers, jackals and wild pigs can be spotted in Kanha.

Additional Information

• India has a total of 42 UNESCO World heritage sites that include 34 cultural, 7 natural, and 1 mixed heritage site.

• The list of 7 national Natural World Heritage sites of UNESCO are as follows:

• Kaziranga Wild Life Sanctuary, Assam.

• Sundarbans National Park, West Bengal.

• Great Himalayan National Park, Himachal Pradesh.

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• Manas Wild Life Sanctuary, Assam.
• Keoladeo National Park, Bharatpur, Rajasthan.
• Nanda Devi and Valley of Flowers National Parks, Uttarakhand.
• The Western Ghats.

Q77. Answer: (c) William G Kaelin Jr, Sir Peter J Ratcliffe and Gregg L Semenza

The correct answer is William G Kaelin Jr, Sir Peter J Ratcliffe and Gregg L Semenza.

• 2019 Nobel Prize:

Field	Recipient	Awarded For
The Nobel Peace Prize >2019	Abiy Ahmed Ali	“for his efforts to achieve peace and international cooperation, and in particular for his decisive initiative to resolve the border conflict with neighboring Eritrea”.
The Nobel Prize in Literature 2019	Peter Handke	“for an influential work, that with linguistic ingenuity has explored the periphery and the specificity of human experience”.
The Nobel Prize in Physics 2019	James Peebles, Michel Mayor, and Didier Queloz	James Peebles “for theoretical discoveries in physical cosmology” Michel Mayor and Didier Queloz “for the discovery of an exoplanet orbiting a solar-type star”.
The Nobel Prize in Chemistry 2019	John B. Goodenough, M. Stanley Whittingham, and Akira Yoshino	“for the development of lithium-ion batteries”
The Nobel Prize in Physiology or Medicine 2019	William G. Kaelin Jr, Sir Peter J. Ratcliffe, and Gregg L. Semenza	“for their discoveries of how cells sense and adapt to oxygen availability

Q78. Answer: (c) 17

The correct answer is 17.

Key Points

• Mahmud of Ghazni was a Turkish conqueror who attacked India 17 times between 1000 to 1027 AD.
• The biggest invasion of Mahmud of Ghazni was in 1025 AD wherein he invaded the Somnath temple in Gujarat.
• In all his 17 invasions, a number of dynasties were conquered by him.

Additional Information

• Al-Biruni was an Iranian scholar and polymath. He was from Khwarezm — a region that encompasses modern-day western Uzbekistan, and northern Turkmenistan.
• The scholar was entrusted by Sultan Mahmud of Ghazni to write an account of the subcontinent.
• Kitab al-Hind is a book written by Al-Beruni and is an important source of Historians.

Q79. Answer: (a) Cherrapunji lies on the windward side of the Khasi hills and receives rainfall from the Bay of Bengal branc...

The correct answer is Cherrapunji lies on the windward side of the Khasi hills and receives rainfall from the Bay of Bengal branch of monsoon, while Shillong lies on the leeward side of the Khasi hills, which forms the rain shadow area.

• The highest rainfall in India is at Cherrapunji(Present name Sohra) in Mawsynram village of Meghalaya state.
• The Average rainfall of Cherrapunji is 11,777 mm or 463.7 inches.
• Mawsynram is located in the East Khasi Hills district.
• It is on the windward side of the hills and is surrounded by hills on three sides.
• It receives rain from southwest monsoon winds (Bay of Bengal branch), as the winds cannot move further striking the hills and due to condensation receives heavy rainfall.
• Shillong lies on the northern leeward slopes of the Khasi Hills and therefore receives less rain.

Q80. Answer: (c) Mridangam

The correct answer is Mridangam.

• Palghat Mani Iyer associated with the Mridangam.

Instrument	Musicians

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Santoor	Pt Shiv Kumar Sharma, Bhajan Sopori, Tarun Bhattacharya, Satish Vyas.
Mridangam	K V Prasad, SV Rajarao, Umalayapuram Sivaraman, Palghat Mani Iyer.
Tabla	Zakir Hussain, Allah Rakha, Sabir Khan, Pt. Kishan Maharaj, Pt. Jnan Prakash Ghosh.
Flute	Hari Prasad Chaurasia, Pannalal Ghosh, TR Mahalingam, N Ramani.
Sarod	Allauddin Khan, Ali Akbar Khan, Amjad Ali Khan, Buddhadev Dasgupta, Bahadur Khan.

Q81. Answer: (d) Article 74(1)

The correct answer is Article 74(1).

• Article 74(1) provides that there shall be a Council of Ministers with the Prime Minister as its head.

• Article 74 deals with the Council of Ministers to aid & advise the president.

• Article 44 is the Uniform Civil Code for the citizens.

• Uniform Civil Code will replace personal laws based on the holy books and customs of each major religious community in India.

• Article 21A is added in the Indian Constitution in the 86th Constitutional Amendment Act 2002.

• It is Right to elementary education.

• Article 34 - Restriction on rights conferred by this Part while martial law is in force in any area.

Q82. Answer: (d) RAM

The correct answer is RAM.

• RAM is the fastest to read from and write to than the other kinds of storage in a computer.

• It is Volatile or temporary memory.

• Data gets erased when the power supply is off.

• Faster memory than ROM.

• It is used in the normal operations of a computer after starting up and loading the operating system.

• CD-ROM for "Compact Disc Read-Only Memory".

• CD-ROM is a CD that can be read by a computer with an optical drive.

• Floppy Disk is a type of disk storage composed of a disk of the thin and flexible magnetic storage medium.

• It is used for backup purpose.

• It is a type of secondary storage.

• The storage capacity of a common floppy disk is 1.44 MB.

• The hard disk is the main device for storing data in the computer.

• It uses magnetic technology (nowadays optical technology for storing data).

• It has a strong coating above the magnetic metallic oxide in order to protect the major components.

Q83. Answer: (b) India’s dairy industry

The correct answer is India’s dairy industry.

Key Points:

• Operation Flood was launched in 1970.

• It was a project of India's National Dairy Development Board (NDDB).

• It was the world's biggest dairy development program.

• In 30 years, it doubled milk available per person, and made dairy farming India's largest self-sustainable rural employment generator.

• Verghese Kurien, the chairman and founder of Amul, was named the chairman of NDDB by the then Prime Minister of India Lal Bahadur Shastri.

• He was known as the father of Operation flood.

Q84. Answer: (b) To measure income inequality

The correct answer is To measure income inequality.

• Gini Coefficient represent the Distribution of Income.

• It measures the degree of income inequality in the country's population.

• Gini coefficient is also one of the indicators of economic development in the country.

• The value of the Gini Coefficient varies from 0 to 1.

• 0 means perfect equality everyone has the same income, and 1 means perfect inequality all the income is received by a single individual.

• Graphical Representation of the Gini Index (Lorenz curve)

Q85. Answer: (a) Justice HL Dattu

The correct answer is Justice HL Dattu.

• The chairperson of the National Human Rights Commission was Shri Justice H. L. Dattu.

• The President appoints the chairperson and members of the NHRC for five years or until he is 70 years old (whichever is earlier).

• The National Human Rights Commission's non-constitutional bodies.

• The NHRC is responsible for human rights and established in 1993 under an act of Parliament.

• The human right act of 1993 provides the National, the State Human Rights Commission, and human rights courts.

• 10 December observed World Human Rights Day.

• Headquarter: Delhi

Additional Information

Constitutional bodies	Statutory body
These bodies are mentioned under the constitution and derive their power from the constitution.	These are non-constitutional bodies and they do not find any mention in the constitution.
Any change in the mechanism of these bodies would require a constitutional amendment.	They are created by an act of Parliament.
Important constitutional bodies are: - Finance Commission - Election Commission - the CAG - the UPSC	Important statutory bodies are : - SEBI - NHRC - UIDAI

Q86. Answer: (b) 250

The correct answer is 250.

Key Points

• Article 80 of the Constitution lays down the maximum strength of Rajya Sabha as 250, out of which 12 members are nominated by the President and 238 are representatives of the States and of the two Union Territories.

• The present strength of Rajya Sabha, however, is 245, out of which 233 are representatives of the States and Union territories of Delhi and Puducherry and 12 are nominated by the President.

• The members nominated by the President are persons having special knowledge or practical experience in respect of such matters as literature, science, art, and social service.

Q87. Answer: (c) Fuse

The correct answer is Fuse.

• Fuse is a piece of wire of a material with a very low melting point.

• When a high current flows through the circuit due to overloading or a short circuit, the wires get heated and melts.

• As a result, the circuit is broken and current stops flowing.

• The fuse is always connected in the live path because if the live wire gets short-circuited somewhere within the appliance and results in the high current then the fuse can blow and protect the appliance.

Additional Information

• A capacitor is a device that stores electrical energy in an electric field.

• It is a passive electronic component with two terminals.

• The effect of a capacitor is known as capacitance.

• A surge protector is an electrical device that is used to protect equipment against power surges and voltage spikes while blocking voltage over a safe threshold (approximately 120 V).

• A Protective Relay is a device that detects the fault and initiates the operation of the circuit breaker to isolate the defective element from the rest of the system.

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Q88. Answer: (c) MARSIS

The correct answer is MARSIS.

• In July 2018, a stable body of liquid water was found on Mars using a radar instrument on board the European Space Agency's Mars Express orbiter. The tool that was used for the discovery is called MARSIS.

• MARSIS (Mars Advanced Radar for Subsurface and Ionosphere Sounding) is a low frequency, pulse-limited radar.

Q89. Answer: (d) Just Fontaine

The correct answer is Just Fontaine.

• Just Fontaine scored the most goals at a single tournament in the entire history of FIFA World Cup.

• The 2022 FIFA World Cup is scheduled to be the 22nd edition of the FIFA World Cup.

• It is scheduled to take place in Qatar from 21 November to 18 December 2022.

• This will be the first World Cup ever to be held in the Arab world and the first in a Muslim-majority country.

• Federation Internationale de Football Association (FIFA) is the international governing body of football association.

• FIFA was founded in 1904 to oversee international competition among the national associations of Belgium, Denmark, France, Germany, the Netherlands, Spain, Sweden, and Switzerland.

• FIFA is headquartered in Zurich, Switzerland.

• Its membership now comprises 211 national associations.

Q90. Answer: (b) Ryan ten Doeschate

The correct answer is Ryan ten Doeschate.

Important Points

• Ryan ten Doeschate had the distinction of having the highest career batting average in One Day Internationals as of January 2020.

• Ryan ten Doeschate is a right-handed batsman who represents the Netherlands in International cricket.

• For the years 2008, 2010, and 2011, Ryan ten Doeschate has been named ICC Associate Player of the Year.

Additional Information

• In 2020, the ICC Men's Player of the Decade award has been given to Virat Kohli hat was conducted by DNA India.

• Sachin Tendulkar holds the record of making the most number of 100 centuries in International cricket with 49 in ODIs and 51 in test cricket.

• The 2023 ICC men's Cricket world cup will be hosted by India. It will be the 13th edition of the ICC Men's Cricket World Cup.

Q91. Answer: (a) 26 December 2019

The correct answer is 26 December 2019.

Important Points

• On 26 December 2019, the 120th birth anniversary of Shaheed Udham Singh celebrated in India.

• Shaheed Udham Singh was an Indian freedom fighter belonging to Ghadar Party. He was born in 1899 in the Sangrur district of Punjab.

• Shaheed Udham Singh is known for his assassination of Michael O'Dwyer in London, on 13 March 1940. Michael O'Dwyer was responsible for the Jallianwala Bagh massacre in Amritsar in 1919. As revenge, he was killed by Udham Singh.

• Michael O'Dwyer was an Irish Indian Civil Service officer and during 1913 and 1919 he was the former lieutenant governor of Punjab in British India.

Additional Information

• On 26 November 2020, we celebrated Constitution day.

• On 28 September 2020, we celebrated the 113th birth anniversary of birth Shaheed Bhagat Singh.

Q92. Answer: (d) Assam

The correct answer is Assam.

Important Points

• Assam is the states/union territories that are more likely to find the natural habitat of the one-horned rhinoceros (Indian Rhino).

• Kaziranga National Park of Assam has the largest population with more than 90% of greater-one horned rhinos.

• Kaziranga National Park lies partly in Golaghat District and partly in Nagaon District of Assam. It is the oldest park in Assam covers an area of 430 sq km along the river Brahmaputra on the North and the Karbi Anglong hills on the South.

• Kaziranga National Park a world heritage site is famous for the Great Indian one-horned rhinoceros, the landscape of Kaziranga is of sheer forest, tall elephant grass, rugged reeds, marshes & shallow pools. It has been declared as National Park in 1974.

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Additional Information

• Hemis National Park located in Ladakh is one of Asia's most famous natural habitats of the Snow Leopard.

• Dachigam National Park located in Jammu and Kashmir is famous for the hangul, or Kashmir stag.

Q93. Answer: (b) Flash drive

The correct answer is Flash drive.

Important Points

• Flash drive is a small, portable flash memory card that plugs into a computer’s USB port and functions as a portable hard drive.

• A flash drive is a portable data storage device. Flash drives consist of a number of flash chips, they are the larger memory modules.

• The chips that are used to read the contents of a single cell and to write the entire block of the cell are flash chips.

• Flash memory was invented in the 1980s by a Japanese engineer Fujio Masuoka.

Additional Information

• CD-ROM stands for "Compact Disc Read-Only Memory." CD-ROM contains data that can be read by a computer with an optical drive.

• DVD-ROM stands for "Digital Versatile Disk-Read Only Memory". This device is used to store files permanently and that file cannot be changed or erased.

Q94. Answer: (c) 5^(th) June

The correct answer is 5th June.

Important Points

• Every year ‘World Environment Day’ is celebrated on 5th June.

• World Environment Day (WED) was first held in the year 1974, it was established by the United Nations to raise awareness on environmental issues.

• In the year 2020, World Environment Day (WED) was celebrated on the theme of 'Celebrate Biodiversity'.

• In the year 2019, World Environment Day (WED) was celebrated on the theme of "Air pollution".

• The theme for World Environment Day 2021 is “Ecosystem Restoration”.

• The World Environment Day theme for 2022 is "Only One Earth"

• The theme for World Environment Day 2023 is "Solutions to plastic pollution".

Additional Information

• Every year National Maritime Day is celebrated on 5th April.

• Every year World Health Day is celebrated on 7th April.

Q95. Answer: (c) A portal launched by the Government of India to block and trace mobile phones

The correct answer is A portal launched by the Government of India to block and trace mobile phones.

Important Points

• Central Equipment Identify Register is a portal launched by the Government of India to block and trace mobile phones.

• CEIR acts as a central system for all network operators to share blacklisted mobile devices so that devices blacklisted in one network will not work on other networks even if the Subscriber Identity Module (SIM) card in the device is changed.

• The CEIR was launched by the Government of India on 30th December 2019.

• The user should block the IMEI of their phone if it has been lost/stolen. From their mobile user can check the IMEI number by dialling *#06#, IMEI number will be shown on the mobile screen.

• Shri Ravi Shankar Prasad is the Cabinet Minister for Communications, Electronics & Information Technology and Law & Justice in the Government of India.

Q96. Answer: (d) Sania Mirza

The correct answer is Sania Mirza.

• Sania Mirza lifted the WTA Hobart International trophy with partner Nadiia Kichenok after edging out Peng Shuai and Shuai Zhang in the final.

Key Points

• The unseeded Indo-Ukrainian pair pipped the second seed Chinese team 6-4, 6-4 in one hour 21 minutes.

• It is Sania's 42nd WTA doubles title and first since Brisbane International trophy in 2017 with American partner Bethanie Mattek-Sands.

• Sania did not compete on the WTA circuit in the entire 2018 and 2019 seasons to start a family with cricketer husband Shoaib Malik.

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• Sania and Nadiia began by breaking the Chinese players in the very first game of the match but only to drop serve in the next.

Additional Information

• Hobart International is a women's professional tennis tournament held at the Hobart International Tennis Centre in Hobart, Australia.

• Held since 1994, it forms a part of the Women's Tennis Association (WTA) Tour and is classed as an International tournament.

Important Points

• Singles: Elena Rybakina (Kazakhstan) defeated Zhang Shuai (China).

Q97. Answer: (c) Lord Mountbatten

The correct answer is Lord Mountbatten.

Important Points

• Lord Mountbatten was the last Viceroy of India who oversaw the creation of the independent states of India and Pakistan.

• Loius Mountbatten was an officer in the British Royal Navy, he was the last Viceroy of India and the first governor-general of independent India.

• He was appointed Viceroy of India in March 1947, he was the first Governor-General of India until June 1948.

• After independence, Chakravarti Rajagopalachari became the last and only Indian governor-general of India until India became a republic country in 1950.

Additional Information

• Clement Attlee was the Prime Minister of the United Kingdom at the time when India got Independence.

• Warren Hastings was the first official Governor-General of Fort William, Bengal.

Q98. Answer: (c) Ganges-Brahmaputra Delta

The correct answer is Ganges-Brahmaputra Delta.

• Ganges-Brahmaputra Delta is the largest delta in the world.

• The deposition of sediment that is carried by a river created a landform called a river delta.

• The Ganges Delta also called Sunderban Delta is situated in the Bengal region of the Indian subcontinent and also in Bangladesh. The delta surface area of some 100.000 km2.

• The Ganges Delta is formed by three major rivers the Ganga, the Brahmaputra, and the Megna river. Ganges Delta is also one of the most fertile regions in the world.

• The river Ganga originates from the Gangotri glacier of the western Himalayas.

• The Brahmaputra River originates in the north from the Kailash ranges of the Himalayas at an elevation of 5,150 m just south of the lake called Konggyu Tsho.

Q99. Answer: (c) Dhyan Chand

The correct answer is Dhyan Chand.

Important Points

• Every year National Sports Day is celebrated on the birth anniversary of Dhyan Chand.

• MAJOR DHYAN CHAND Singh was the hockey player who won gold medals in Olympics for India three times.

• PM Narendra Modi has launched Fit India Movement on the occasion of National Sports Day twenty-ninth August of the year 2019.

• The Fit India Movement is a movement to take the nation on a path of fitness and wellness. It provides a unique and exciting opportunity to work towards a healthier India.

Additional Information

• Every year on 12th January National Youth Day on the birth anniversary of Swami Vivekananda.

• The current Minister of State of the Ministry of Youth Affairs and Sports is Shri Kiren Rijiju.

Q100. Answer: (d) West Champaran, Bihar

The correct answer is West Champaran, Bihar.

Important Points

• Valmiki Tiger Reserve is located at West Champaran, Bihar.

• Valmiki Tiger Reserve forms the easternmost limit of the Himalayan Terai forests in India and is the only tiger reserve of Bihar.

• Valmiki Tiger Reserve lies in the north-western (mostly in the West Champaran) district of Bihar. The name of the district has been derived from two words Champa and Aranya meaning Forest of Champa trees.

• Situated in the Gangetic Plains bio-geographic zone of the country, the forest has a combination of bhabar and terai tracts.

Additional Information

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• Project Tiger was launched by the Government of India in the year 1973 to save the endangered species of tiger in the country. Starting from nine (9) reserves in 1973-2016 the number is grown up to fifty (50).

• Madhya Pradesh is also known as the 'Tiger State' has 6 Tiger reserves within the state.

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