SSC CHSL Previous Paper 11 (Held On: 12 Oct 2020 Shift 2) (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. Select the wrongly spelt word.

(a) Judiciary
(b) Virtual
(c) Ambasador
(d) Appreciate

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

FURTIVE

(a) Positive
(b) Abortive
(c) Adhesive
(d) Secretive

Q3. Select the most appropriate meaning of the given idiom.

Actions speak louder than words

(a) What you do reveals the real you
(b) What you do is your own business
(c) What you can see may not be true
(d) What you don’t say is what you are

Q4. Directions: Select the most appropriate synonym of the given word.

AGILE

(a) Visible
(b) Nimble
(c) Guile
(d) Docile

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.

The choices we make in life determine who we are. One’s life is (1)____ marked by the exemplary choices one has made (2) __ one’s journey. The mega icon Ratan Tata has described his journey (3)__ being a seven-year-old boy, who played his part (4) __ the freedom struggle, to being moved by the plight of a family on a two-wheeler which became the genesis of the world’s most (5)____ car the Tata Nano.

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

(a) never
(b) often
(c) rarely

(d) seldom

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

(a) along
(b) upon
(c) into
(d) toward

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

(a) for
(b) from
(c) though
(d) above

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

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

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

(a) economize
(b) economist
(c) economical
(d) economic

Q10. In the given sentence identify the segment which contains the grammatical error.

Freedom of expression meaning the right to express one's own convictions and beliefs.

(a) convictions and beliefs
(b) to express one's own
(c) meaning the right
(d) Freedom of expression

Q11. Select the most appropriate word to fill in the blank in the given sentence.

Those earning less than Rs. 10,000 are _____ from paying income tax.

(a) adjusted
(b) accepted
(c) exempted
(d) collected

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

The teacher _____ the student for cheating.

(a) invoked
(b) refused
(c) rebuked
(d) praised

Q13. Select the correct indirect form of the given sentence.

Sitab asked his mother, "Has it been snowing all night?"

(a) Sitab asked his mother if it had been snowing all night.
(b) Sitab asked his mother if it has snowed all night.
(c) Sitab asked his mother if it was snowing all night.
(d) Sitab asked his mother if it is snowing all night.

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Q14. Select the most appropriate ANTONYM of the given word.

RESERVED

(a) Reticent
(b) Forgiving
(c) Cowardly
(d) Friendly

Q15. Given below are four jumbled sentences. Select the option that gives their correct order.

A. In order to buy that bicycle, he plans to win some prize money by teaching an illiterate person how to read and write.

B. He needs a bicycle to win the bicycle race which would help pay off his father's debt.

C. The film 'Douch' is about a young Iranian village boy.

D. But the only illiterate person is a 90-year-old woman who is ill-tempered and doesn't wish to learn anything.

(a) ADBC
(b) DABC
(c) CBAD
(d) CABD

Q16. Select the most appropriate ANTONYM of the given word.

Enigma

(a) Charade
(b) Mystery
(c) Clarity
(d) Make-believe

Q17. 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 rising prices of essential food items have placed (a/an) weighty burden on the poor.

(a) No improvement
(b) lightest
(c) enormous
(d) trivial

Q18. Select the word which means the same as the group of words given.

Having no moral principles

(a) Mischievous
(b) Unaware
(c) Unscrupulous
(d) Ethical

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

A. Behind them some camels carrying drums and small guns.

B. The Emperor is escorted by two decorated elephants who head the procession.

C. At the end come the platoons of soldiers in rows of two.

D. First of all, there is a volley of guns announcing Emperor Bahadur Shah's entry into the mosque.

(a) DBAC
(b) BCDA
(c) DCBA
(d) ABDC

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

My hotel in Goa had a wonderful view of the sea in the window.

(a) of the sea
(b) My hotel in Goa
(c) in the window
(d) had a wonderful view

Q21. Select the word which means the same as the group of words given.

Using the right and left hand equally well

(a) Unskilled
(b) Inexpert
(c) Ambidextrous
(d) Left-handed

Q22. Select the correct passive form of the given sentence.

The Delhi Police has shot an educational video on Traffic Rules for school students

(a) An educational video on Traffic Rules for school students is being shot by the Delhi Police
(b) An educational video on Traffic Rules for school students was being shot by the Delhi Police.
(c) An educational video on Traffic Rules for school students has been shot by the Delhi Police.
(d) An educational video on Traffic Rules for school students had been shot by the Delhi Police.

Q23. 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'.

India has lost a veteran actor with the deceased of Shriram Lagoo.

(a) bereavement
(b) No improvement
(c) demise
(d) expired

Q24. Direction: Select the most appropriate meaning of the given idiom.

A piece of cake

(a) Something difficult
(b) Something serious
(c) Something amusing
(d) Something easy

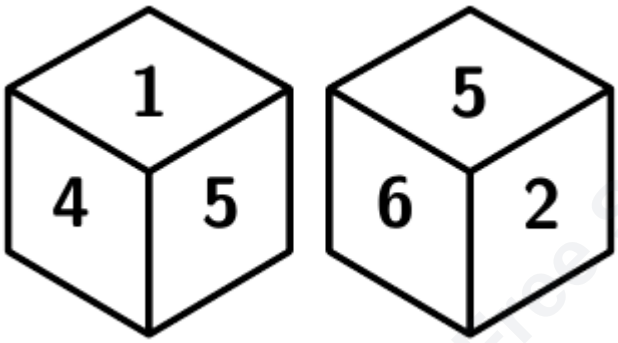
Q25. Select the wrongly spelt word.

(a) Embarassment
(b) Undergarment
(c) Announcement
(d) Resettlement

GENERAL INTELLIGENCE

Q26. Two positions of the same dice are shown. Select the number that will be on the face opposite to the one having the number 5.

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(a) 6
(b) 3
(c) 1
(d) 4

Q27. Select the option in which the numbers share the same relationship as that shared by the given number-pair.

34 : 210

(a) 66 : 402
(b) 54 : 100
(c) 47 : 282
(d) 38 : 236

Q28. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

(a) TSRQ
(b) WVUT
(c) MLKJ
(d) PONL

Q29. Showing the picture of Shikha, Parul said, "she is the grandmother of my father's only son". How is the Shikha related to Parul?

(a) Mother
(b) Daughter in law
(c) Sister
(d) Grandmother

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

(9, 217, 8)

(a) (2, 76, 5)
(b) (3, 49, 2)
(c) (4, 37, 3)
(d) (5, 625, 6)

Q31. If '+' means 'divided by', '-' means 'add', '×' means 'minus' and '÷' means 'multiplied by', what will be the value of the following expression?

[{(32 × 24) - (4 ÷ 3)} + (3 - 2)] ÷ 3

(a) 8
(b) 10
(c) 6
(d) 12

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Q32. X is the mother of A. Y is the sister of B's father. R is the father of B. A and Z are sisters. B is the brother of Z. How is R related to X?

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

Q33. 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 conclusions logically follow(s) from the statements.

Statements:

1. All parrots are pigeons.

2. No pigeons are tables.

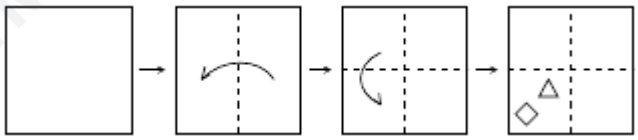
Conclusions:

I. All pigeons are tables.

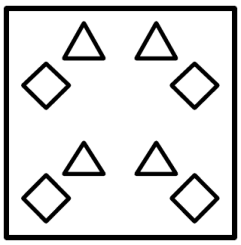
II. No parrot is a table.

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

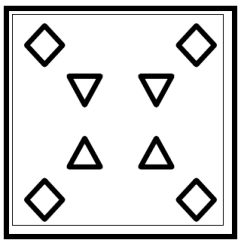
Q34. The sequence of folding a paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



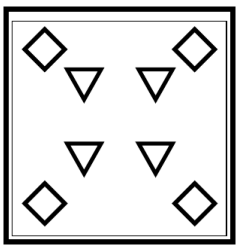
(a)



(b)

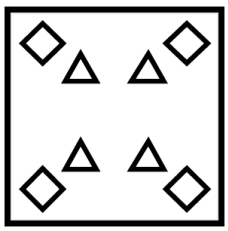


(c)



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(d)

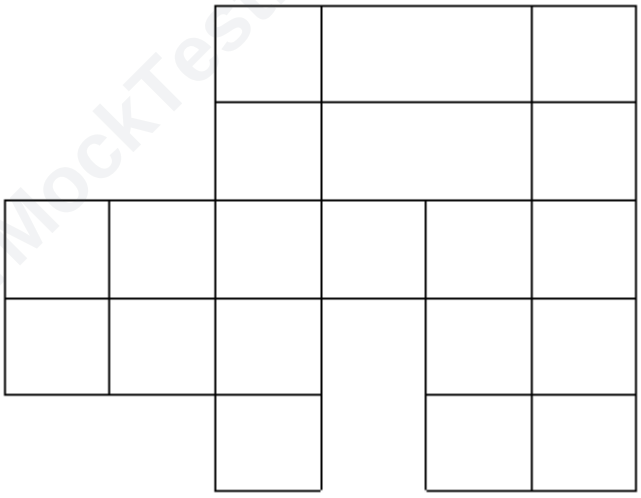


Q35. Complete the following series by replacing the question mark (?) given in the series.

AZ, CX, EV, ?, IR

(a) FT
(b) HT
(c) GS
(d) GT

Q36. How many squares are there in the given figure?



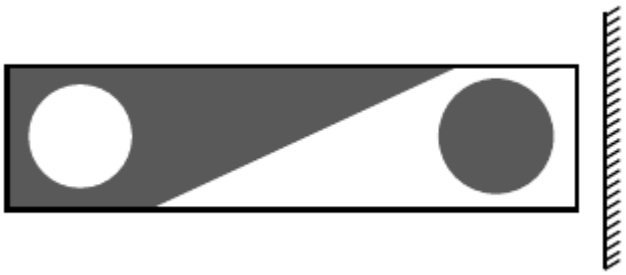
(a) 33
(b) 29
(c) 34
(d) 32

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.

EASY : IETZ :: LAKE : _____

(a) PELF
(b) MBLI
(c) PBKL
(d) PELO

Q38. Select the correct mirror image of the given figure.



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(a)



(b)



(c)



(d)



Q39. Complete the following series.

7, 16, 34, 70, __, __

(a) 142, 286
(b) 144, 292
(c) 144, 286
(d) 142, 294

Q40. In a certain code language, NIB is coded as 112 and COB is coded as 122. How will JET be coded as in that language?

(a) 81
(b) 92
(c) 102
(d) 119

Q41. 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.

_ _ bc _ daabc _ _ a _ _ ccd

(a) accdaac
(b) aaccdab
(c) acccdcb
(d) cacdcab

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Q42. Arrange the given words in a logical and meaningful sequence.

1. Shoulder
2. Thigh
3. Stomach
4. Chest
5. Face
6. Neck

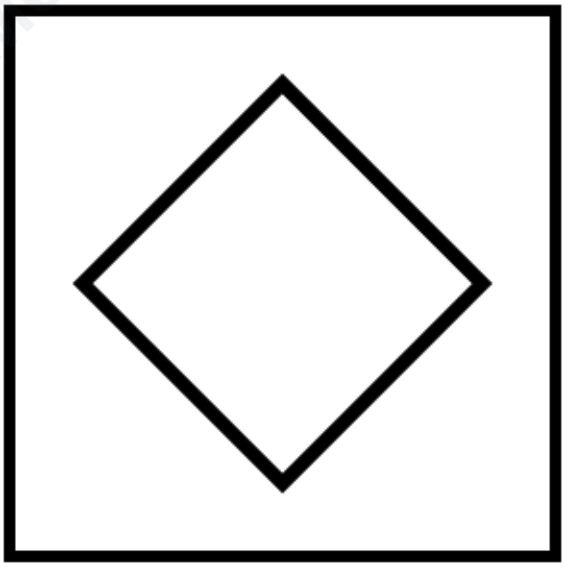
(a) 5, 6, 1, 4, 3, 2
(b) 5, 6, 3, 4, 1, 2
(c) 2, 4, 6, 1, 3, 2
(d) 5, 6, 1, 2, 3, 4

Q43. There are 6 boys in a class of 11 students. A student is chosen from the class at random to be made the class monitor.

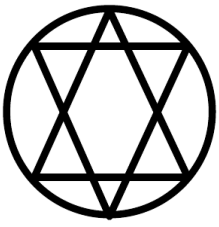
What is the probability that the class monitor is a girl?

(a) 1
(b) 7/11
(c) 6/11
(d) 5/11

Q44. Select the option in which the given figure is embedded. (Rotation is not allowed)

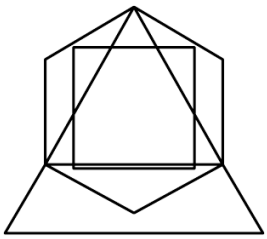


(a)

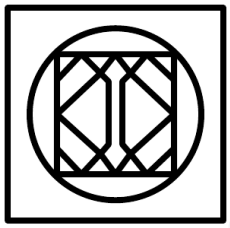


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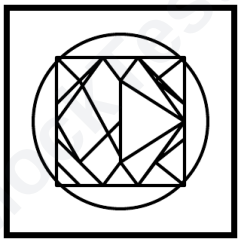
(b)



(c)



(d)



Q45. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the member-pair that is different from the rest

(a) 7-50
(b) 5-26
(c) 6-35
(d) 4-17

Q46. 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.

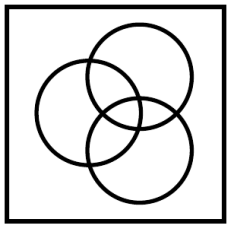
LAME : OXPB :: TREE : ?

(a) UMFA
(b) WOHB
(c) QUBH
(d) VNGB

Q47. Select the Venn diagram that best represents the relationship between the following classes.

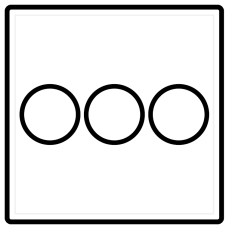
Chandigarh, India, Seoul

(a)

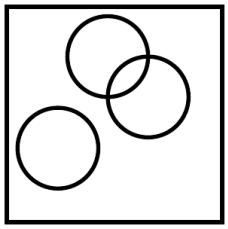


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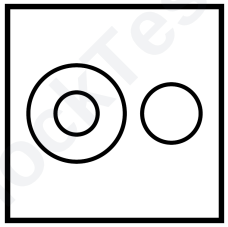
(b)



(c)



(d)



Q48. In a certain code language, 'LOCKER' is written as 'OLXPVI'. How will 'GLOBAL' be written as in that language?

(a) HUYTRE
(b) JOREDO
(c) UPMZAP
(d) TOLYZO

Q49. Select the option in which the numbers are related in the same way as are the numbers in the given set.

(5, 6, 61)

(a) (3, 4, 25)
(b) (5, 2, 49)
(c) (3, 8, 24)
(d) (9, 4, 26)

Q50. Select the option figure that can replace the question mark (?) in the following series.

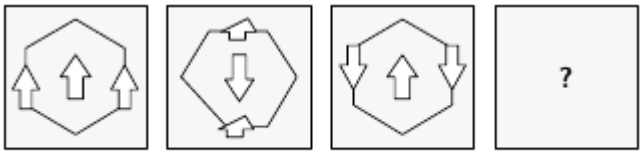
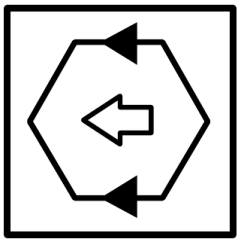


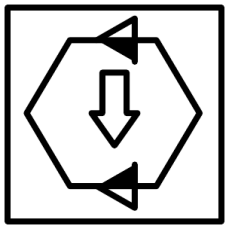
FIGURE 1 FIGURE 2 FIGURE 3 FIGURE 4

(a)

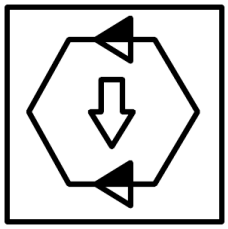


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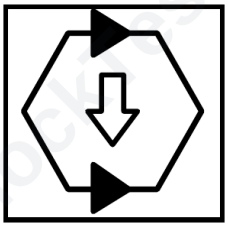
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. When (77^(77) + 77) is divided by 78, the remainder is:

(a) 75
(b) 74
(c) 77
(d) 76

Q52. A man divided his journey into three parts of distances of 18 km, 20 km, and 27 km. He travelled the distances at the speeds of 6 km/h, 5 km/h, and 9 km/h, respectively. What was his average speed during the entire journey?

(a) 7.5 km/h
(b) 5.5 km/h
(c) 6.5 km/h
(d) 4.5 km/h

Q53. If $x + y + z = 10$, $x^3 + y^3 + z^3 = 75$ and $xyz = 15$, then find the value of $x^2 + y^2 + z^2 – xy – yz – zx$

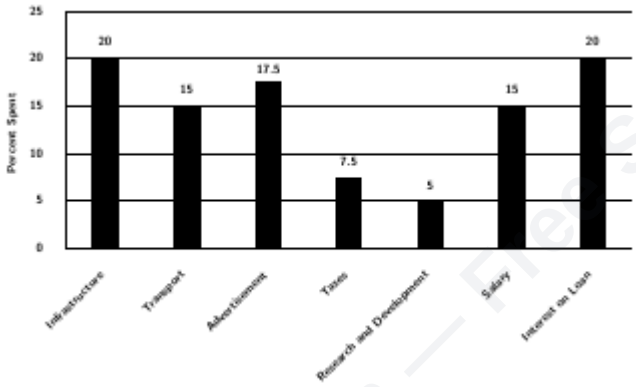
(a) 3
(b) 5
(c) 6
(d) 4

Q54. On selling a bike for Rs. 2500 a seller incurs a loss of 20%. What price would have caused him to lose 30%?

(a) Rs. 2186.5
(b) Rs. 2187.5
(c) Rs. 2185.5
(d) Rs. 2188.5

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Q55. The given graph represents the percentage distribution of the total expenditure of a company. Study the graph and answer the question that follows.



The expenditure on 'Interest on loans' is what percentage more than the expenditure on 'Transport'?

(a) 55.55%
(b) 22.22%
(c) 11.11%
(d) 33.33%

Q56. If $3\sec^2 x - 4 = 0$, then the value of x $(0 < x < 90°)$

(a) 45°
(b) 15°
(c) 30°
(d) 60°

Q57. XYZ is a triangle. If the medians ZL and YM intersect each other at G, then (Area of ΔGLM : Area of ΔXYZ) is:

(a) 1 : 14
(b) 1 : 10
(c) 1 : 12
(d) 1 : 11

Q58. Length and breadth of rectangular field are in the ratio 5 : 2. If the perimeter of the field is 238 m. Find the length of the field.

(a) 83 m
(b) 82 m
(c) 84 m
(d) 85 m

Q59. Find the value of $(\tan 60° - \tan 15°)/(1 + \tan 60° \tan 15°)$

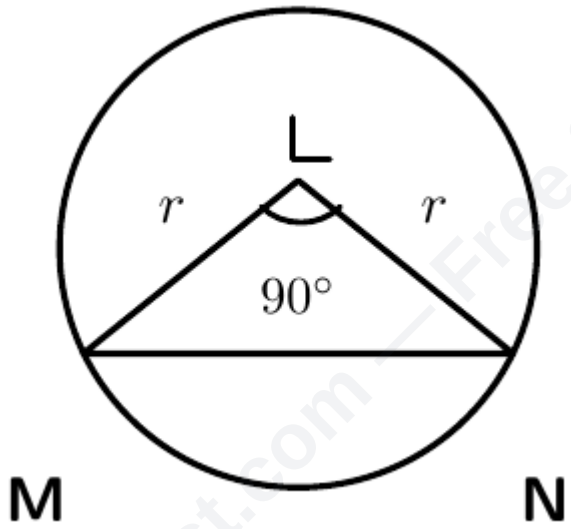
(a) 1
(b) $1/\sqrt{2}$
(c) 1/2
(d) $\sqrt{3}/2$

Q60. Mohan offers to sell his articles at a discount of 20%, but he marks his articles by increasing the price of each by 35%. What percentage would his gain be?

(a) 10%
(b) 9%
(c) 8%
(d) 7%

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Q61. In the figure, L is the centre of the circle, and ML is the perpendicular to LN. If the area of the triangle MLN is 36, then the area of the circle is:

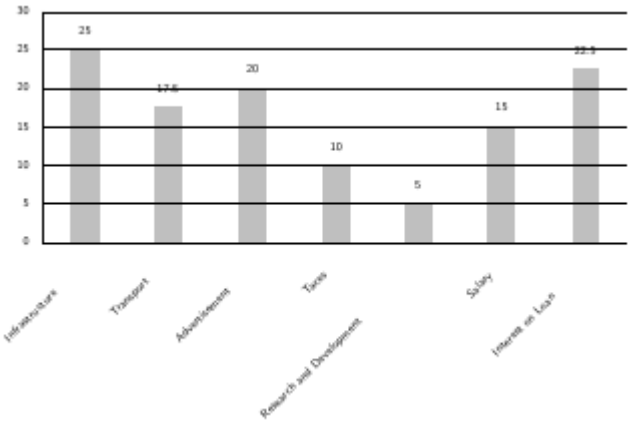


(a) 68π
(b) 66π
(c) 70π
(d) 72π

Q62. The average of the runs of a cricket player in 20 matches is 35. If the average of the first 12 matches is 45, find the average of the last 8 matches.

(a) 18
(b) 16
(c) 20
(d) 22

Q63. The given graph represents the distribution of the total expenditure (in crore) of a company. Study the graph and answer the question that follows.

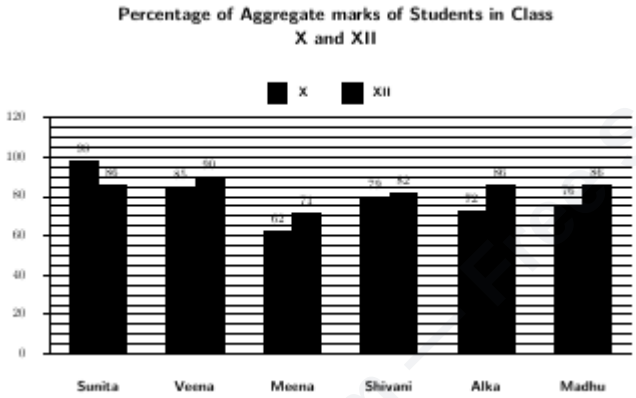


The total expenditure of the company is how many times the total expenditure on 'Research and Development' and 'Salary'?

(a) 5.75
(b) 7.75
(c) 6.75
(d) 8.75

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Q64. The following graph shows the performance in aggregate marks of 2 boards examinations of a group of friends. On the basis of the graph, identify the girl who has shown the maximum improvement from class X to class XII.



(a) Meena
(b) Veena
(c) Madhu
(d) Alka

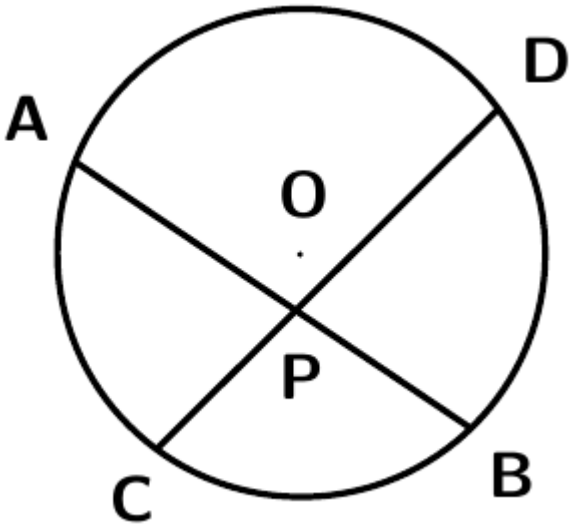
Q65. In how many years will the simple interest on a sum of money be equal to the principle at rate of 12 2/4% p.a.?

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

Q66. 30 men working 8 hours per day can dig a pond in 16 days. By working how many hours per day can 32 men dig the same pond in 20 days?

(a) 7 hours per day
(b) 5 hours per day
(c) 8 hours per day
(d) 6 hours per day

Q67. In the given figure, O is the centre of the circle. Its two chords AB and CD intersect each other at the point P within the circle. If AB = 15 cm, PB = 9 cm, CP = 3 cm, then find the length of PD.



(a) 16 cm
(b) 20 cm
(c) 18 cm
(d) 22 cm

Q68. Find the value of 2.1 + 2.25 ÷ [63 - {7.5 × 8 + (13 - 2.5 × 5)}]

(a) 2.8
(b) 2.9
(c) 3.0
(d) 3.1

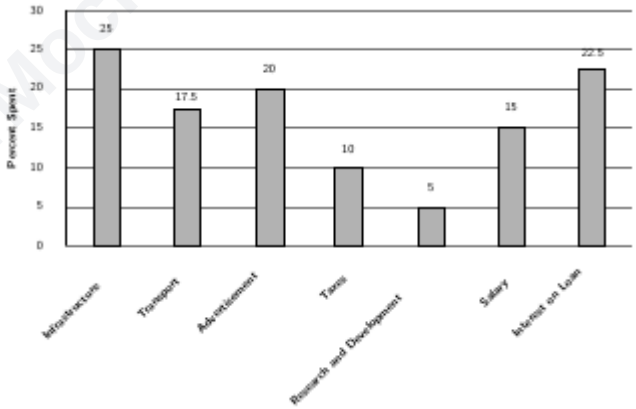
Q69. If a + b = 11 and ab = 15, then $a^2 + b^2$ is equal to:

(a) 90
(b) 91
(c) 93
(d) 92

Q70. Rs. 3,600 is divided between Seema, Komal and Rita, such that the ratios of the shares of Seema : Komal = 1.5 : 2 and Komal : Rita = 2 : 2.5. Find Rita's share.

(a) Rs. 1,300
(b) Rs. 1,500
(c) Rs. 1,200
(d) Rs. 1,400

Q71. The given graph represents the percentage distribution of the total expenditure of a company. Study the graph and answer the question that follows.



What is the ratio of the total expenditure on 'Infrastructure' and 'Transport' to the total expenditure on 'Taxes' and 'Interest on Loans'?

(a) 15 : 13
(b) 17 : 13
(c) 14 : 13
(d) 16 : 13

Q72. PQR is an isosceles triangle such that PQ = QR = 10 cm and angle PQR = 90°. What is the length of the perpendicular drawn from Q on PR?

(a) 5√2 cm
(b) 7√2 cm
(c) 4√2 cm
(d) 6√2 cm

Q73. If $4\cos^2\theta - 3\sin^2\theta + 2 = 0$, then the value of $\tan\theta$ is (where $0 \le \theta < 90°$)

(a) √2
(b) √6
(c) 1/√3
(d) 1

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Q74. A runner is running at a speed of 40 km/h. If he runs at a speed of 30 km/h, then what will the decrease in the percentage of his speed be?

(a) 15%
(b) 20%
(c) 25%
(d) 30%

Q75. If a - b = 4 and $a^3 - b^3 = 88$, then find the value of $a^2 - b^2$.

(a) $8\sqrt{6}$
(b) $6\sqrt{6}$
(c) $7\sqrt{2}$
(d) $9\sqrt{6}$

GENERAL AWARENESS

Q76. What is the symbol of Tin?

(a) Ti
(b) Si
(c) Sn
(d) Ta

Q77. What was the magnitude of the Indian Ocean Tsunami 2004?

(a) 8.9
(b) 9.1
(c) 8.6
(d) 7.4

Q78. New Delhi's Lotus Temple was designed by an architect from _____.

(a) UAE
(b) Japan
(c) Iran
(d) Germany

Q79. When did the Sarkaria Commission submit its report?

(a) 1985
(b) 1984
(c) 1988
(d) 1986

Q80. How many West African nations agreed to change the name of their common currency from ‘CFA Franc’ to ‘Eco’ in December 2019?

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

Q81. Which of the following divisions of plants does NOT have a well-differentiated body?

(a) Bryophyta
(b) Thallophyta
(c) Gymnosperms
(d) Pteridophyta

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Q82. Bhatiali is the folk music of which of the following states?

(a) Karnataka
(b) Tamil Nadu
(c) West Bengal
(d) Kerala

Q83. Which of the following Articles of the Constitution of India has a provision for the Constitution of Legislatures in States?

(a) 167
(b) 165
(c) 163
(d) 168

Q84. The F7 key is commonly used in Microsoft programs such as Microsoft Word, Outlook, etc. for:

(a) renaming files and folders
(b) checking spelling and grammar
(c) opening help
(d) searching content in various apps

Q85. What is the name of the first crude oil pipeline constructed in India?

(a) Mumbai High-Mumbai-Ankleshwar-Kayoli Pipeline
(b) Naharkatia-Nunmati-Barauni Pipeline
(c) Hajira-Bijapur-Jagdishpur (HBJ) Gas Pipeline
(d) Kandla-Bhatinda Pipeline

Q86. The famous Gupta period Dashavatara Temple, recognised as one of the earliest Panchayatan temples in north India, is located at:

(a) Nachna-Kuthara
(b) Bhitargaon
(c) Tigawa
(d) Deogarh

Q87. What is the approximate speed of sound in distilled water at 25°C (77°F)?

(a) 1284 m/s
(b) 1598 m/s
(c) 3980 m/s
(d) 1498 m/s

Q88. Which country is to train Indian flight surgeons to enable them to monitor the health of astronauts selected for the human space mission Gaganyaan?

(a) USA
(b) Russia
(c) France
(d) China

Q89. During the phenomenon of aphelion, the approximate distance between the earth and the sun is:

(a) 137 million km
(b) 147 million km
(c) 142 million km
(d) 152 million km

Q90. In the field of computing, what does ENIAC stand for?

(a) Electronic Numerical Integrator and Computer
(b) Electronic Numerals Integration and Computing
(c) Electronic Numbers Integration and Computer

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(d) Electronic Numerical Integrated Advanced Computer

Q91. The National Game of Bhutan is:

(a) Archery
(b) Taekwondo
(c) Wrestling
(d) Shooting

Q92. Who among the following took charge as the 39^(th) President of the BCCI in October 2019?

(a) Anurag Thakur
(b) Sourav Ganguly
(c) Sashank Manohar
(d) CK Khanna

Q93. Miss Universe 2019 is the native of which of the following nations?

(a) Jamaica
(b) Australia
(c) South Africa
(d) France

Q94. How many person(s) has/have been selected for the Rajiv Gandhi Khel Ratna Award, 2019?

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

Q95. Ethiopia’s first satellite was launched from which Country's Space Station in December 2019?

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

Q96. Which of the following sectors of the economy has the highest share in India's GDP?

(a) Service
(b) Industrial
(c) Manufacturing
(d) Agriculture

Q97. The novel ‘Chanakya’ which won the Sahitya Akademi Award in 2019 was in which language?

(a) Hindi
(b) Gujarati
(c) Assamese
(d) Bengali

Q98. Who was the founder of the City of Hyderabad?

(a) Nasir Jung
(b) Sekhabat Jung
(c) Muhammad Quli Qutb Shah
(d) Salabat Jung

Q99. Which of the following banks prints the currency notes in India?

(a) Reserve Bank of India
(b) NABARD
(c) State Bank of India
(d) ICICI Bank

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Q100. Most of the atmospheric Ozone gas is found in which layer of the atmosphere?

(a) Stratosphere
(b) Thermosphere
(c) Mesosphere
(d) Troposphere

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Ambasador

The correct answer is - Ambasador. i.e. this is an incorrect spelling.

Key Points

• Let's look at the correct spelling and meaning of the marked option:
• Ambassador - a person who represents, speaks for, or advertises a particular organization, group of people, activity, or brand.
• Example:
• He was really an ambassador for surfing because he was such a gentleman.
• Let's look at the meanings of the other given options:
• Judiciary - the part of a country's government that is responsible for its legal system and which consists of all the judges in the country's courts of law
• Virtual - almost or nearly as described, but not completely or according to strict definition.
• Appreciate - recognize the full worth of.

Additional Information

• Let's look at the words related to the marked option:
• Synonyms - emissary, envoy, legate, minister, representative.

Q2. Answer: (d) Secretive

The correct answer is - secretive

Key Points

• Let's look at the meaning of the given word and the marked option:
• Furtive - attempting to avoid notice or attention, typically because of guilt or a belief that discovery would lead to trouble.
• Secretive - (of a person or an organization) inclined to conceal feelings and intentions or not to disclose information.
• Let's look at the meanings of the other given options:
• Positive - constructive, optimistic, or confident.
• Abortive - failing to produce the intended result.
• Adhesive - able to stick fast to a surface or object; sticky.
• Hence, from the given meanings, we find that secretive is the synonym for furtive.

Additional Information

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• Let's look at the synonyms and antonyms for the given word:
• Synonyms - slippery, sly, sneaking, sneaky, stealthy
• Antonyms - aboveboard, forthright, plainspoken, straightforward

Q3. Answer: (a) What you do reveals the real you

The correct answer is - What you do reveals the real you.

Key Points

• Let's look at the meaning of the given proverb:
• Actions speak louder than words - what someone actually does means more than what they say they will do.
• Example:
• They are not expected to win, but they believe actions speak louder than words.

Additional Information

• Proverb - a short, well-known pithy saying, stating a general truth or piece of advice.
• A proverb is used the way it is i.e., without any alterations.

Q4. Answer: (b) Nimble

The correct answer is - Nimble.

Key Points

• Let's look at the meaning of the given word and the marked option:
• Agile - able to move quickly and easily.
• Nimble - quick and light in movement or action.
• Let's look at the meanings of the other given options:
• Visible - able to be seen.
• Guile - sly or cunning intelligence.
• Docile - ready to accept control or instruction; submissive.
• Hence, from the given meanings, we find that Nimble is the synonym for Agile.

Additional Information

• Let's look at the synonyms and antonyms for the given word:
• Synonyms - acrobatic, flexible, limber, loose-jointed, pliable
• Antonyms - inflexible, rigid, stiff, uncoordinated

Q5. Answer: (b) often

The correct answer is - often.

Key Points

• Let's look at the meanings of the given adverbs:
• never - at no time in the past or future; not ever.
• often - frequently; many times.
• rarely - not often; seldom.
• The given sentence talks about an event that takes place frequently. The choices we make decide how our life is going to be like.
• In the current scenario, the adverb 'often' is the correct choice.

Additional Information

• Exemplary: serving as a desirable model; representing the best of its kind.

Q6. Answer: (a) along

The correct answer is - along.

Key Points

• Let's look at the meanings of the given prepositions:
• along - moving in a constant direction on (a road, path, or any more or less horizontal surface).
• upon - more formal term for on, especially in abstract senses.
• into - expressing movement or action with the result that someone or something becomes enclosed or surrounded by something else.

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• toward - in the direction of.
• The given sentence talks about the choices made during the course of one's journey.
• In the current scenario, the preposition 'along' is the correct choice.

Q7. Answer: (b) from

The correct answer is - from.

Key Points

• Let's look at the meanings of the given prepositions:
• for - used to indicate the place someone or something is going to or toward.
• from - indicating the point in space at which a journey, motion, or action starts.
• though - despite the fact that; although.
• above - in extended space over and not touching.
• The given sentence talks about Ratan Tata's journey from one point to another.
• In the current scenario, the preposition 'from' is the correct choice in the 3rd blank.

Q8. Answer: (b) in

The correct answer is - in.

Key Points

• Let's look at the meanings of the given prepositions:
• from - indicating the point in space at which a journey, motion, or action starts
• in - used as a function word to indicate inclusion, location, or position within limits
• of - used as a function word to indicate a point of reckoning
• with - used as a function word to indicate a participant in an action, transaction, or arrangement
• The given sentence talks about Ratan Tata's participation/inclusion in the freedom struggle.
• In the current scenario, the preposition 'in' is the correct choice in the 4th blank.

Q9. Answer: (c) economical

The correct answer is - economical.

Key Points

• Since the 5th blank is succeeded by a noun i.e., car, we need an adjective to qualify it.
• Of the given options, the 3rd and 4th options are adjectives but there is a difference between them which is given below:
• Economical - refers to being thrifty or not wasteful.
• Economic - relating to economics or the economy.
• The given sentence talks about the Tata Nano being an affordable car.
• In the current scenario, the adjective 'economical' is the correct choice in the 5th blank.

Additional Information

• Let's look at a similar pair of confusing adjectives:
• Historic - describes something momentous or important in history.
• Historical - describes something that belongs to an earlier period of history.
• Examples:
• We used a historic map to learn about the history of our town. (incorrect)
• We used a historical map to learn about the history of our town. (correct)
• The cathedral is of great historic and architectural interest. (correct)

Q10. Answer: (c) meaning the right

The correct answer is - meaning the right.

Key Points

• The simple present tense is used when an action is happening right now, to state or ask about things in general, or when it happens regularly or unceasingly.
• The structure is given below:
• Subject + V1 + object.
• The verb will take 's/es' if the given noun/pronoun (3rd person) is singular.
• Example:

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• He plays badminton daily.
• In the given part of the sentence, we need a simple present verb tense as a general statement has been given here.
• Since 'freedom' is a singular noun, the singular verb i.e., 'means' will be used.
Correct Sentence: Freedom of expression means the right to express one’s own convictions and beliefs.

Additional Information
• Certain verbs used only in the simple present tense are given below:
• See, think, know, possess, like, want, desire, hate, seem, imagine, etc.
• Example:
• My brother is owning a car. (incorrect)
• My brother owns a car. (correct)

Q11. Answer: (c) exempted

The solution is in Hindi. Read it online.

Q12. Answer: (c) rebuked

The solution is in Hindi. Read it online.

Q13. Answer: (a) Sitab asked his mother if it had been snowing all night.

The correct answer is - Sitab asked his mother if it had been snowing all night.
Key Points
• Let's look at the steps to change the sentence from direct to indirect speech:
• When the direct speech is in the interrogative form, we follow the steps given below:
• When the reporting verb 'said to' is used without an object, it is used as it is.
• Comma and inverted commas are replaced by the connective word 'if'.
• Change the sentence in the reported speech from interrogative to assertive.
• The helping verb is changed according to the tense, followed by the 3rd form of the verb. The present perfect continuous tense will be changed to the past perfect continuous tense.
• has been snowing - had been snowing.
• At last, line up the remaining part.
Following these steps, we finally get - Sitab asked his mother if it had been snowing all night.

Q14. Answer: (d) Friendly

The correct answer is - Friendly.
Key Points
• Let's look at the meanings of the given word and the marked option:
• Reserved - slow to reveal emotion or opinions.
• Friendly - behaving in a pleasant, kind way towards someone.
• Let's look at the meanings of the other given options:
• Reticent - not revealing one's thoughts or feelings readily.
• Forgiving - ready and willing to forgive.
• Cowardly - in a way that shows a lack of courage.
• Hence, from the given meanings, we find that Friendly is the antonym for Reserved.

Additional Information
• Let's look at the synonyms and antonyms for the given word:
• Synonyms - laconic, reticent, silent, taciturn, tight-lipped
• Antonyms - garrulous, loquacious, talkative, unreserved

Q15. Answer: (c) CBAD

The correct answer is - CBAD.
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 film 'Douch'. It is the introductory sentence and will be put in the first place.

• Sentence B tells us more about the young Iranian boy and his needs. It will be put in second place.
• Sentence A tells us about the task that the boy plans to do in order to buy the bicycle.
• So it will follow Sentence B. It will be put in third place.
• The last sentence is D as it mentions a 90-year-old woman who is illiterate.
• Thus, the correct order is - CBAD.

Q16. Answer: (c) Clarity

The correct answer is - Clarity.

Key Points

• Let's look at the meanings of the given word and the marked option:
• Enigma - something hard to understand or explain.
• Clarity - the quality of being coherent and intelligible.
• Let's look at the meanings of the other given options:
• Charade - an absurd pretence intended to create a pleasant or respectable appearance.
• Mystery- something that is difficult or impossible to understand or explain.
• Make-believe- the action of pretending or imagining that things are better than they really are.
• Hence, from the given meanings, we find that Clarity is the antonym for Enigma.

Additional Information

• Let's look at the synonyms and antonyms for the given word:
• Synonyms - conundrum, head-scratcher, mystery, mystification
• Antonyms - assurance, certainty, certitude, confidence, conviction

Q17. Answer: (c) enormous

The correct answer is - enormous.

Key Points

• Let's look at the meanings of the given words:
• weighty - of great seriousness and importance.
• lightest - having little weight
• enormous - marked by extraordinarily great size, number, or degree
• trivial - of little worth or importance
• As per the context of the sentence, the rising prices of essential food items have a huge impact on the poor.
• In the current scenario, the adjective 'enormous' is the correct choice in the given blank.

Correct Sentence: The rising prices of essential food items have placed an enormous burden on the poor.

Alternate Method

• The article 'an' which precedes the underlined part, suggests that the adjective should start with a vowel.
• Hence, we are left with only the 3rd option i.e. enormous as the correct choice.

Q18. Answer: (c) Unscrupulous

The correct answer is - Unscrupulous.

Key Points

• Let's look at the meaning of the marked option:
• Unscrupulous - not guided by or showing a concern for what is right.
• Let's look at the meanings of the other given options:
• Mischievous - causing or showing a fondness for causing trouble in a playful way.
• Unaware - having no knowledge of a situation or fact.
• Ethical - relating to moral principles or the branch of knowledge dealing with these.
• Hence, from the given meanings, we find that Unscrupulous is the correct one-word substitute.

Additional Information

• Let's look at the synonyms and antonyms for the given word:
• Synonyms - Machiavellian, unconscionable, unethical, unprincipled
• Antonyms - ethical, moral, principled, scrupulous

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Q19. Answer: (a) DBAC

The correct answer is - DBAC.

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 'Emperor Bahadur Shah'. It is the introductory sentence and will be put in the first place.

• Sentence B tells us more about the two decorated elephants. They escort the Emperor and head the possession. So, Sentence B will be put in second place.

• Sentence A tells about the camels carrying drums and small guns and they are behind the two elephants ('them' refers to the elephants).

• So it will follow Sentence B. It will be put in third place.

• The last sentence is C as it mentions the platoons of soldiers that are 'at the end.'

• Thus, the correct order is- DBAC.

Q20. Answer: (c) in the window

The correct answer is - in the window.

Key Points

• A preposition is a word that shows direction (a letter to you), location (at the door), or time (by noon), or that introduces an object (a basket of apples).

• Prepositions are typically followed by an object, which can be a noun (noon), a noun phrase (the door), or a pronoun (you).

• In the given sentence, the use of the preposition 'in' is wrong.

• It should be replaced by 'from' as a point is indicated from where the subject looks at the sea.

Correct Sentence: My hotel in Goa had a wonderful view of the sea from the window.

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.

Q21. Answer: (c) Ambidextrous

The correct answer is - Ambidextrous.

Key Points

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

• Ambidextrous - using both hands with equal ease or dexterity.

• Here, the prefix 'Ambi' i.e., both reveals the meaning of the given word.

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

• Unskilled - not having or requiring special skill or training.

• Inexpert - having or showing a lack of skill or knowledge.

• Left-handed - (of a person) using the left hand more naturally than the right.

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

Additional Information

• Let's look at the synonyms and antonyms for the given word:

• Synonyms - adroit, artful, deft, delicate, dexterous

• Antonyms - unfit, unfitted, unqualified, unskilled, unskillful

Q22. Answer: (c) An educational video on Traffic Rules for school students has been shot by the Delhi Police.

The correct answer is - An educational video on Traffic Rules for school students has been shot by the Delhi Police.

Key Points

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

• Find the subject (The Delhi Police) and object (An educational video on Traffic Rules for school students) of the sentence and exchange their places.

• The given sentence is in the present perfect tense. The passive verb form for the present perfect is:

• Has/have + been + past participle form of the verb.

• So, 'has shot' changes to 'has been shot'.
• At last line up the remaining part.
Following these steps, we finally get - An educational video on Traffic Rules for school students has been shot by the Delhi Police.

Q23. Answer: (c) demise

The solution is in Hindi. Read it online.

Q24. Answer: (d) Something easy

The correct answer is - Something easy.
Key Points
• Let's look at the meaning of the given idiom:
• A piece of cake - something that is very easy to do.
• Example:
• The exam was a piece of cake.

Additional Information
• Let's look at the origin of the idiom:
• The idea of cake being “easy” originated in the 1870s when cakes were given out as prizes for winning competitions.
• In particular, there was a tradition in the US slavery states where slaves would circle a cake at a gathering.
• The most “graceful” pair would win the cake in the middle.
• From this, the term “cakewalk” and “piece of cake” came into being, both meaning that something was easy to accomplish.

Q25. Answer: (a) Embarassment

The wrongly spelt word is 'Embarassment'.
Key Points
• Let's look at the correct spelling and meaning of the marked option:
• Embarrassment - a feeling of self-consciousness, shame, or awkwardness.
• Example:
• Nobody spoke for at least five minutes and Rachel squirmed in her chair with embarrassment.
• Let's look at the meanings of the other given options:
• Undergarment - a piece of underwear
• Announcement - something that someone says officially, giving information about something
• Resettlement - the act or process of helping someone move to another place to live, or the act of moving to another place to live

Additional Information
• Let's look at the words related to the marked option:
• Synonyms - disturbance, perturbation, unease, uneasiness, upset
• Antonyms - poise, self-assurance, self-confidence, self-possession

Q26. Answer: (b) 3

Given positions of the same dice,
We know, a dice has six faces and numbers from 1 to 6.
In given positions we see 5 and all adjacent numbers are given and the remaining number "3" is the opposite to the face having number 5.
Hence, the correct answer is 3.

Q27. Answer: (a) 66 : 402

Given,
34 : 210
Here we have (34 + 1) × 6 = 210
Similarly,
66 : 402 = (66 + 1) × 6 = 402
54 : 100 = (54 + 1) × 6 ≠ 100
47 : 282 = (47 + 1) × 6 ≠ 282

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38 : 236 = (38 + 1) × 6 ≠ 236

Hence, the correct answer is 66 : 402

Q28. Answer: (d) PONL

Given,

TSRQ, WVUT, MLKJ, PONL

Here all the clusters are in reverse alphabetical order except PONL.

Hence, the correct answer is PONL.

Q29. Answer: (d) Grandmother

Given

1) Showing the picture of Shikha, Parul said

2) Shikha is the grandmother of Parul's father's only son

Preparing the family tree using the following symbols:

Possible tree diagram will be,

From the above arrangement, we see Shikha is the grandmother of Parul.

Hence, the correct answer is the Grandmother.

Q30. Answer: (c) (4, 37, 3)

Given set,

(9, 217, 8)

$93 – 83 = 729 – 512 = 217$

Here, we see the middle number is the difference of cubes of 1st and 3rd number.

Therefore,

$(2, 76, 5) = 5^3 – 2^3 = 125 – 8 = 117 \neq 76$

$(3, 49, 2) = 3^3 – 2^3 = 27 – 8 = 19 \neq 49$

$(4, 37, 3) = 4^3 – 3^3 = 64 – 27 = 37$

$(5, 625, 6) = 6^3 – 5^3 = 216 – 125 = 91 \neq 625$

Hence, the correct answer is (4, 37, 3).

Q31. Answer: (d) 12

Based on condition given,

Symbol	Meaning
•	÷
•	•
×	•
÷	×

Substitute this in the given expression

[{(32 × 24) - (4 ÷ 3)} + (3 - 2)] ÷ 3

Therefore,

[{(32 - 24) + (4 × 3)} ÷ (3 + 2)] × 3

= [{8 + 12} ÷ (5)] × 3

= [{20} ÷ (5)] × 3

= 4 × 3 = 12

Hence, the correct answer is 12.

Q32. Answer: (c) Husband

Given,

1) X is the mother of A.

2) A and Z are sisters.

3) B is the brother of Z.

4) R is the father of B.

5) Y is the sister of B's father.

So,

Preparing the family tree using the following symbols:

Possible tree diagram will be,

From the above arrangement, we see R is the Husband of X.

Hence, the correct answer is Husband.

Q33. Answer: (b) Only conclusion II follows.

The least possible Venn diagram for the given statements is as follows.

Conclusions:

I. All pigeons are tables. → False (From Venn diagram we see no pigeons are tables)

II. No parrot is a table. → True (From Venn diagram we see no parrot is a table)

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

Q34. Answer: (b) [figure]

Given sequence,

Here we see the paper is folded along the dotted lines and cut is taken in square shape and triangle, where the square is at the corner of paper while the base of the triangle is towards the centre. When we unfold the paper we see a similar pattern in each quadrant.

We see the paper as in the above figure.

Hence, the correct answer is

Q35. Answer: (d) GT

Given series,

AZ, CX, EV, ?, IR

Here two different series are followed

For the first letter in the group

A + 2 = C + 2 = E + 2 = G + 2 = I

For the second letter in the group

Z − 2 = X − 2 = V − 2 = T − 2 = R

Therefore, the group formed is GT.

Hence, the correct is GT.

Q36. Answer: (d) 32

Given,

Small single squares - 21

Large squares on combining four small squares - 9

Large squares on combining nine small squares - 2

Therefore, total number of squares = 32

Hence, the correct answer is 32.

Q37. Answer: (a) PELF

Given,

EASY : IETZ :: LAKE : _____

The pattern followed here is,

E + 4 = I

A + 4 = E

S + 1 = T

Y + 1 = Z

Similarly,

L + 4 = P

A + 4 = E

K + 1 = L

E + 1 = F

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Therefore, the word LAKE : PELF

Hence, the correct answer is PELF.

Q38. Answer: (d) [figure]

Given,

Here, the top and bottom part of the image will remain in the same position and only the left and the right part will be changed.

Therefore, the above image will be a mirror image.

Hence, the correct answer is

.

Q39. Answer: (a) 142, 286

Given series,

7, 16, 34, 70, __, __

The pattern followed here is

7 + 9 = 16 + 18 = 34 + 36 = 70

Similarly,

70 + 72 = 142 + 144 = 286

Hence, the correct answer is 142, 286.

Q40. Answer: (b) 92

The pattern followed is,

Sum of reverse positional value of letters and multiplied by 2.

NIB = (13 + 18 + 25) × 2 = 112

COB = (24 + 12 + 25) × 2 = 122

Similarly,

JET = (17 + 22 + 7) × 2 = 92

Hence, 92 is the correct answer.

Q41. Answer: (b) aaccdab

Given,

_ _ bc _ daabc _ _ a _ _ ccd

In the above series by putting given options we get

1) acbccdaabcdaaacccd

2) aabccd/aabccd/aabccd

3) acbccdaabccdacbccd

4) cabccdaabcdcaabccd

Here, we have set of six letters in the second option.

Hence, the correct answer is aaccdab.

Q42. Answer: (a) 5, 6, 1, 4, 3, 2

Given words,

1. Shoulder
2. Thigh
3. Stomach
4. Chest
5. Face
6. Neck

The body parts are arranged in the top to bottom order as following,

5. Face
6. Neck
1. Shoulder
4. Chest
3. Stomach
2. Thigh

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Hence, the correct answer is 5, 6, 1, 4, 3, 2.

Q43. Answer: (d) 5/11

Given,
Number of students = 11
Number of boys = 6
Number of girls = 5
Therefore,
P (A) = 5/11
Hence, the correct answer is 5/11

Q44. Answer: (c) [figure]

Given figure,
The above figure is embedded in the figure in option 3
Hence, the correct answer is

Q45. Answer: (c) 6-35

The pattern followed here is
$7 \rightarrow 7^2 + 1 = 50$
$5 \rightarrow 5^2 + 1 = 26$
$6 \rightarrow 6^2 - 1 = 35$
$4 \rightarrow 4^2 + 1 = 17$
Therefore, the different pair is 6-35.
Hence, the correct answer is 6-35.

Q46. Answer: (b) WOHB

Given,
LAME : OXPB :: TREE : ?
The pattern followed here is,
L + 3 = O, A − 3 = X, M + 3 = P, E − 3 = B
Similarly,
T + 3 = W, R − 3 = O, E + 3 = H, E − 3 = B
Hence, the correct answer is WOHB.

Q47. Answer: (d) [figure]

Given,
Chandigarh, India, Seoul
Here, Chandigarh is the city in India while Seoul is the capital of South Korea.
Therefore the best possible Venn diagram is,
Hence, the correct answer is

Q48. Answer: (d) TOLYZO

From the above table, we see Z is opposite to A, Y is opposite to B, and so on.
Here, LOCKER is written as OLXPVI
Similarly, GLOBAL is written as TOLYZO
Hence, the correct answer is TOLYZO.

Q49. Answer: (a) (3, 4, 25)

Given,
(5, 6, 61)
Here the pattern followed is,
$5 \times 6 = 30 \times 2 + 1 = 61$
Similarly,
1) (3, 4, 25)

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3 × 4 = 12 × 2 + 1 = 25

2) (5, 2, 49)

5 × 2 = 10 × 2 + 1 = 21

3) (3, 8, 24)

3 × 8 = 24 × 2 + 1 = 49

4) (9, 4, 26)

9 × 4 = 36 × 2 + 1 = 73

Hence, the correct answer is (3, 4, 25).

Q50. Answer: (c) [figure]

Given,

In the above-given figure, we see the arrow is changing direction as up and down and the hexagon is rotating in a clockwise direction.

Therefore, the figure in place of the question mark is

Hence, the correct answer is

Q51. Answer: (d) 76

Given:

(77^(77) + 77) ÷ 78

Formula:

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

$(x^n + y^n) = (x + y)$ .....

Where n is an odd number

Calculation:

(7777 + 77) ÷ 78

=> [(7777 + 1) + 76]/78

=> [(7777 + 1)/78 + 76/78

=> [(7777 + 1^(77))/78 + 76/78

Form the give formula we can say (7777 + 1^(77)) is divisible by 78.

Therefore Remainder = 76.

Calculation:

According to the question, we have

When 77 is divided by 78, the remainder will be (- 1)

Using remainder theorem

[(7777 + 77)/78

=> [(-1)^(77) + (-1)]/78

=> (- 1 - 1)/78

=> (- 2)/78

=> 76

Therefore The reminder is 76.

Q52. Answer: (c) 6.5 km/h

Given:

The man covers 18 km distance at the speed = 6 km/hr.

He covers 20 km distance at the speed = 5 km/hr.

He covers 27 km distance at the speed = 9 km/hr.

Formula:

Average speed = (Total distance/Total time)

Calculation:

Time taken by man to cover 18 km distance at the speed of 6 km/hr. = 18/6 = 3 hrs.

Time taken by man to cover 20 km distance at the speed of 5 km/hr. = 20/5 = 4 hrs.

Time taken by man to cover 27 km distance at the speed of 9 km/hr. = 27/9 = 3 hrs.

Total distance = 18 + 20 + 27 = 65 km

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Total time = 3 + 4 + 3 = 10 hrs.

Therefore Average speed = 65/10 = 6.5 km/hr.

Q53. Answer: (a) 3

Given:

$x + y + z = 10$, $(x^3 + y^3 + z^3) = 75$ and $xyz = 15$

Formula:

$(x^3 + y^3 + z^3 - 3xyz) = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$

Calculation:

According to the given formula

$(x3 + y3 + z3 - 3xyz) = (x + y + z)(x2 + y2 + z2 - xy - yz - zx)$

$\Rightarrow 75 - 3 \times 15 = 10 \times (x2 + y2 + z2 - xy - yz - zx)$

$\Rightarrow 75 - 45 = 10 \times (x2 + y2 + z2 - xy - yz - zx)$

$\Rightarrow (x2 + y2 + z2 - xy - yz - zx) = 30/10$

Therefore $x2 + y2 + z2 - xy - yz - zx = 3$

Q54. Answer: (b) Rs. 2187.5

Given:

SP of the bike = Rs. 2500

Loss% = 20%

Formula:

Loss = CP – SP

Loss % = (Loss/CP) × 100

Calculation:

CP of the bike = 2500 × (100/80) = Rs. 3125

Therefore New SP of the bike = 3125 × (70/100) = Rs. 2187.5

Q55. Answer: (d) 33.33%

Given:

Expenditure on 'Interest on loans' = 20%

Expenditure on 'Transport' = 15%

Calculation:

The expenditure on 'Interest on loans' is more than that of on 'Transport' = [(20 - 15)/15] × 100%

$\Rightarrow (5/15) \times 100\%$

$\Rightarrow 33.33\%$

Therefore Expenditure on Interest on loans is 33.33% more than the expenditure on Transport

Q56. Answer: (c) 30°

Given:

$3 \sec^2 x - 4 = 0$

Formula:

$\sec 30° = 2/\sqrt{3}$

Calculation:

$3 \sec^2 x - 4 = 0$

$\Rightarrow \sec^2 x = 4/3$

$\Rightarrow \sec x = 2/\sqrt{3}$

$\Rightarrow \sec x = \sec 30°$

Therefore $x = 30°$

Q57. Answer: (c) 1 : 12

Given:

ZL and YM intersect each other at G.

Concept:

Median divides the triangle into two equal parts.

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Calculation:

If mid points of sides of a triangle joined, then the triangle is divided into four equal parts, [see figure (1)]

Let area of each triangle ΔXLM = ΔYLP = ΔPMZ = ΔLMP = 6 units

Total area of ΔXYZ = 24 units

Median divides the triangle into two equal parts, [see figure (2)]

Area of each triangle ΔLGM = ΔMGP = ΔPLG = 2 units

Therefore Area of ΔGLM : Area of ΔXYZ = 2 : 24 = 1 : 12.

Q58. Answer: (d) 85 m

Given:

Ratio of length and breadth of the rectangular field = 5 : 2.

Perimeter of the rectangular field = 238 m.

Formula:

Perimeter of the rectangle = 2(l + b)

Calculation:

Ratio of length and breadth of the rectangular field = 5x : 2x

According to the question

2 × (5x + 2x) = 238

=> 2 × 7x = 238

=> x = 238/14

=> x = 17 m

Therefore Length of the field = 5 × 17 = 85 m.

Q59. Answer: (a) 1

Given:

(tan 60° - tan 15°)/(1 + tan 60° tan 15°)

Formula:

tan (A - B) = (tan A - tan B)/(1 + tan A tan B)

tan 45° = 1

Calculation:

(tan 60° - tan 15°)/(1 + tan 60° tan 15°)

=> tan (60° - 15°)

=> tan 45°

=> 1

Q60. Answer: (c) 8%

Given:

Discount = 20%

MP is more than CP by 35%

Formula:

Profit = SP – CP

Profit % = (Profit/CP) × 100

Calculation:

Let CP of the articles be Rs. 100

MP of the articles = 100 × (135/100) = Rs. 135

Now,

SP of the articles = 135 × (80/100) = Rs. 108

Profit = Rs. 108 - Rs. 100 = Rs. 8

Therefore Profit percentage = (8/100) × 100 = 8%

Q61. Answer: (d) 72π

Given:

L is the center of the circle and ML is perpendicular to LN

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Area of the triangle MLN = 36

Formula:

Area of the circle = πr^2

Area of the right-angled triangle = (1/2) × Base × Height

Calculation:

In ΔLMN

LM = LN = r (Radius of the circle)

Area of right-angled ΔLMN = (1/2) × r × r

=> 36 = $r^2/2$

=> $r^2 = 72$

Therefore Area of the circle = $\pi r^2 = 72\pi$

Q62. Answer: (c) 20

Given:

Average runs of player in 20 matches = 35

Average runs of player in first 12 matches = 45

Formula:

Average = (Sum of all observations)/(Total number of all observations)

Calculation:

Sum of runs of player in 20 matches = 35 × 20 = 700

Sum of runs of player in first 12 matches = 12 × 45 = 540

Sum of runs of player in last 8 matches = 700 - 540 = 160

Therefore Average runs of player in last 8 matches = 160/8 = 20

Shortcut Trick

REMAING matches Average

= common average - [(higher avg - avg) x no of player (high avg)]\remaing player

= 35 - [(45 - 30)12]/8 = 35 - (120/8) =35 -15 =20

Q63. Answer: (a) 5.75

Given:

The total expenditure on 'Research and Development' and 'Salary' = 5 + 15 = 20 cr

Total expenditure of company = 25 + 17.5 + 20 + 10 + 5 + 15 + 22.5 = 115 cr

The total expenditure of the company is the total expenditure on 'Research and Development' and 'Salary' = 115/20 = 5.75 times

Q64. Answer: (d) Alka

Improvement of marks of Meena from class X to class XII = 71 - 62 = 9

Improvement of marks of Veen from class X to class XII = 90 - 85 = 5

Improvement of marks of Madhu from class X to class XII = 86 - 76 = 10

Improvement of marks of Alka from class X to class XII = 86 - 72 = 14

Therefore On the basis of the graph the girl who has shown the maximum improvement from class X to class XII is Alka.

Q65. Answer: (a) 8 years

Given:

Rate = 12 2/4% = (50/4)%

Formula:

SI = Prt/100

Calculation:

Let principal be Rs. x, then

SI = Rs. x

According to the question

x = (x × 50 × t)/(100 × 4)

=> t = 8 years

Therefore In 8 years will the simple interest be equal to the principal.

Q66. Answer: (d) 6 hours per day

Given:

30 men working 8 hours per day can dig a pond in = 16 days

Formula:

M1 × T1 × D1 = M2 × T2 × D2

Calculation:

M1 = 30 men, T1 = 8 hrs, D1 = 16 days, M2 = 32 men, D2 = 20 days

According to the formula

30 × 8 × 16 = 32 × T2 × 20

=> T2 = (30 × 8 × 16)/(32 × 20)

Therefore T2 = 6 hrs.

Q67. Answer: (c) 18 cm

Given:

Two chords AB and CD intersect each other at the point P.

AB = 15 cm, PB = 9 cm and CP = 3 cm

Formula:

If two chords AB and CD intersect each other at point P inside the circle, then

AP × PB = CP × PD

Calculation:

AP = AB - PB

=> AP = 15 - 9 = 6 cm

According to the formula

AP × PB = CP × PD

=> 6 × 9 = 3 × PD

=> PD = 54/3

Therefore PD = 18

Q68. Answer: (c) 3.0

Follow BODMAS rule to solve this question, as per the order given below:

Calculation:

2.1 + 2.25 ÷ [63 - {7.5 × 8 + (13 - 2.5 × 5)}}

=> 2.1 + 2.25 ÷ [63 - {60 + (13 - 12.5)}]

=> 2.1 + 2.25 ÷ {63 - {60 + 0.5)}

=> 2.1 + 2.25 ÷ {63 - 60.5}

=> 2.1 + 2.25 ÷ 2.5

=> 2.1 + 0.9

=> 3

Q69. Answer: (b) 91

Given:

a + b = 11 and ab = 15

Formula:

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

Calculation:

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

=> $11^2 = a^2 + b^2 + 2 \times 15$

=> $a^2 + b^2 = 121 - 30$

Therefore $a^2 + b^2 = 91$

Q70. Answer: (b) Rs. 1,500

Given:

Total amount to be divided among Seema, Komal and Rita = Rs. 3600

Ratio of shares of Seema and Komal = 1.5 : 2
Ratio of shares of Komal and Rita = 2 : 2.5
Calculation:
Ratio of shares of Seema and Komal = 1.5x : 2 x
Ratio of shares of Komal and Rita = 2x : 2.5x
Ratio of shares of Seema, Komal and Rita = 1.5x : 2x : 2.5x
According to the question
1.5x + 2x + 2.5x = 3600
=> 6x = 3600
=> x = 3600/6
=> x = 600
Therefore Share of Rita = 2.5 × 600 = Rs. 1,500

Q71. Answer: (b) 17 : 13

Calculation:
The total expenditure on 'Infrastructure' and 'Transport' = 25% + 17.5% = 42.5%
The total expenditure on 'Taxes' and 'Interest on Loans' = 10% + 22.5% = 32.5%
Therefore Required ratio = 42.5 : 32.5 = 17 : 13

Q72. Answer: (a) 5√2 cm

Given:
PQ = QR = 10 cm
angle PQR = 90°
Formula:
Area of triangle = (1/2) × Base × Height
$(\text{Hypotenuse})^2 = (\text{Base})^2 + (\text{Perpendicular})^2$
Calculation:
$PR^2 = 10^2 + 10^2$
$\Rightarrow PR^2 = 100 + 100$
$\Rightarrow PR^2 = 200$
$\Rightarrow PR = 10\sqrt{2}$
Let QM is perpendicular to PR, then
$(1/2) \times 10 \times 10 = (1/2) \times QM \times 10\sqrt{2}$ [Formula of area]
Therefore QM = 5√2 cm.

Q73. Answer: (b) √6

Given
$4 \cos 2\theta - 3 \sin 2\theta + 2 = 0$
Formula:
$\sin 2\theta + \cos 2\theta = 1$
$\tan 2\theta = \sin 2\theta / \cos 2\theta$
Calculation:
$4 \cos 2\theta - 3 \sin 2\theta + 2 = 0$
$\Rightarrow 4 \cos^2\theta - 3 (1 - \cos^2\theta) + 2 = 0$
$\Rightarrow 4 \cos^2\theta - 3 + 3 \cos^2\theta + 2 = 0$
$\Rightarrow 7 \cos^2\theta - 1 = 0$
$\Rightarrow 7 \cos^2\theta = 1$
$\Rightarrow \cos^2\theta = 1/7$
$\sin^2\theta + \cos^2\theta = 1$
$\Rightarrow \sin^2\theta = 1 - 1/7$
$\Rightarrow \sin^2\theta = 6/7$
Now,
$\tan^2\theta = \sin^2\theta / \cos^2\theta$

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=> $\tan^2\theta = (6/7)/(1/7)$

=> $\tan^2\theta = 6$

Therefore $\tan\theta = \sqrt{6}$

Q74. Answer: (c) 25%

Given:

A runner is running at a speed = 40 km/hr

Calculation:

His speed in starting = 40 km/hr

His speed in last = 30 km/hr

He decreases his speed = 40 - 30 = 10 km/hr

Therefore He decreases his speed (in %) = (10/40) × 100 = 25%

Q75. Answer: (a) 8√6

Given:

a - b = 4 and $a^3 - b^3 = 88$

Formula: Therefore

$(a^3 - b^3) = (a - b)(a^2 + b^2 + ab)$

$(a^3 - b^3) = (a - b)[(a - b)^2 + 3ab]$

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

(a + b)(a - b) = a2 - b2

Calculation:

According to the formula

$88 = 4 \times (4^2 + 3ab)$

=> 22 = 16 + 3ab

=> 3ab = 22 - 16

=> ab = 6/3

=> ab = 2

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

$=> 4^2 = a^2 + b^2 - 2 \times 2$

$=> a^2 + b^2 = 16 + 4$

$=> a^2 + b^2 = 20$

$(a + b)^2 = 20 + 2 \times 2$

$=> a + b = \sqrt{24} = 2\sqrt{6}$

Then $(a + b)(a - b) = 2\sqrt{6} \times 4$

$=> 8\sqrt{6}$

Therefore (a2 - b2) = 8√6

Q76. Answer: (c) Sn

The correct answer is Sn.

Key Points

About Tin

Symbol	Sn
Atomic Number	50
Group	14
Atomic Mass	118.69 g.mol -1
Latin Name	Stannum

Additional Information

• It is a soft, silvery-white metal with a bluish tinge.

• Below 13°C it slowly changes to a powder form.

Uses

• It is used to coat other metals to prevent corrosion, such as in tin cans, which are made of tin-coated steel.
• Alloys of tin are important, such as soft solder, pewter, bronze and phosphor bronze.
• A niobium-tin alloy is used for superconducting magnets.
• Most window glass is made by floating molten glass on the molten tin to produce a flat surface.
• Tin salts sprayed onto glass are used to produce electrically conductive coatings.

Important Points

Symbol	Element	Atomic Number
Ti	Titanium	22
Si	Silicon	14
Ta	Tantalum	73

Q77. Answer: (b) 9.1

The correct answer is 9.1.

Key Points

• The Indian Ocean tsunami is also known as the Christmas or Boxing Day tsunami.
• It took place in 2004.
• The Sumatra-Andaman earthquake is estimated to have released energy equivalent to 23,000 Hiroshima-type atomic bombs.
• The Sumatra-Andaman earthquake struck 241.40 km (150 miles) from the coast of Sumatra island, in the northwest of the Indonesian island group, and 49.88 km (31 miles) below the ocean floor.
• The magnitude 9.1 quake ruptured a 1500 km (900-mile) stretch of fault line where the Indian and Australian tectonic plates meet.
• It was a powerful megathrust quake, occurring where a heavy ocean plate slips under a lighter continental plate.

Additional Information

• The Richter scale was developed by Charles F. Richter in 1934.
• It used a formula based on the amplitude of the largest wave recorded on a specific type of seismometer and the distance between the earthquake and the seismometer.

Q78. Answer: (c) Iran

The correct answer is Iran.

Key Points

• Lotus Temple was designed by an architect Furiburz Sabha who belongs to Iran.
• It is the last of seven Major Bahai temples built around the world.
• Shape- Lotus Flower.
• Lotus Temple was Built in 1986.
• Its structure made up of pure white marble.
• The architect Furiburz Sabha chose the lotus as the symbol common to Hinduism, Buddhism, Bhai Temple Jainism, and Islam.

Q79. Answer: (c) 1988

The correct answer is 1988.

Key Points

• Sarkaria Commission was set up on June 9, 1983,
• commission was constituted under the Chairmanship of Justice R.S. Sarkaria with Shri B. Sivaraman and Dr. S.R. Sen as its members.
• The Commission will examine and review the working of the existing arrangements between the Union and States in regard to powers, functions, and responsibilities in all spheres and recommend such changes or other measures as may be appropriate.
• Sarkaria Commission submitted its 1600-page report in January 1988.
• The report contains 247 recommendations spreading over 19 Chapters.
• The main recommendations of the Commission with regard to the Inter-State Council and its Secretariat were
• The Council should be charged with duties in broad terms embracing the entire gamut of clauses (b) and (c) of Article 263.
• The Council should not be vested with powers of inquiring into and advising upon disputes between the States.
• Without an independent permanent secretariat, the Council will not be able to establish its credibility.
• Considering the nature of meetings and the level of participants, the Council's Secretariat should be suitably staffed and

modeled on the Union Cabinet Secretariat.

Q80. Answer: (b) 8

The correct answer is 8.

Key Points

• Eight West African countries agreed to change the name of their common currency to Eco and severed the CFA franc's links to former colonial ruler France.

• Benin, Burkina Faso, Guinea-Bissau, Ivory Coast, Mali, Niger, Senegal, and Togo currently use the currency.

• CFA notes and coins are printed and minted at a Bank of France facility in the southern town of Chamalieres.

• The CFA franc, created in 1945, was seen by many as a sign of French interference in its former African colonies even after the countries became independent.

• The CFA franc was initially pegged to the French franc and has been linked to the euro for about two decades.

Additional Information

• ECOWAS- The Economic Community of West African States regional bloc.

• Established in- 1975

• Member Country- Benin, Burkina Faso, Cape Verde, Gambia, Ghana, Guinea, Guinea-Bissau, Ivory Coast, Liberia, Mali, Niger, Nigeria, Senegal, Sierra Leone, and Togo.

Q81. Answer: (b) Thallophyta

The correct answer is Thallophyta.

Key Points

• Thallophyta- The plants in this group are commonly called algae.

• The form and size of algae are highly variable.

• The algae reproduce by vegetative, asexual, and sexual methods.

• Vegetative reproduction is by fragmentation.

• Each fragment develops into a thallus.

Additional Information

• Bryophyta- Bryophyta includes the various mosses and liverworts that are found commonly growing in moist shaded areas in the hills.

• Bryophytes are also called amphibians of the plant kingdom because these plants can live in soil but are dependent on water for sexual reproduction.

• They play an important role in plant succession on bare rocks/soil.

• Gymnosperms- The gymnosperms are plants in which the ovules are not enclosed by any ovary wall and remain exposed, both before and after fertilization.

• This term is made from two Greek words Gymno means naked and Sperma means seed.

• Pteridophyta- In Pteridophytes, the main plant body is a sporophyte which is differentiated into true root, stem, and leaves.

• The leaves in Pteridophyta are small (microphylls) as in Selaginella or large (macrophytes) as in ferns.

• They are also frequently grown as ornamentals. Evolutionarily, they are the first terrestrial plants to possess vascular tissues-xylem and phloem.

Q82. Answer: (c) West Bengal

The correct answer is West Bengal.

Key Points

• Bhatiali is the folk music of West Bengal.

• It is related to the song of the river, sung by the river through her boatsmen.

• Bhatiali has a river in its name itself.

• Bhati means the downstream.

Additional Information

• Chhau Dance is a renowned tribal martial dance, a unique thing amongst folk dances of West Bengal.

• Alkap Dance is done mainly by the rural community of West Bengal.

• Kushan Gambhira and Kirtan dance of West Bengal.

• The prominent folk dances of Karnataka are the Yakshagana and Dollu Kunitha.

• Bharatanatyam, Bommalattam, Chakkai Attam is dance form of Tamil Nadu.

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• Mohiniyattam, Kathakali famous classical dances of India that developed and remained popular in the state of Kerala.

Q83. Answer: (d) 168

The correct answer is 168.

Key Points

Under Article-168, Constitution of Legislatures in States.

• For every State, there shall be a Legislature which shall consist of the Governor.

• Only Andhra Pradesh, Bihar, Karnataka, Maharashtra, Telangana, and Uttar Pradesh out of 28 states have bicameral legislatures, with the remaining states having a unicameral one.

• In other States, one House.

• There are two Houses of the Legislature of a State, the First Legislative Council and the second Legislative Assembly, and where there is only one House, it shall be known as the Legislative Assembly.

Additional Information

Article	Related to
163	Council of Ministers to aid and advise Governor
164	Other provisions as to Ministers
165	Advocate General for the State
167	Duties of Chief Minister as respects the furnishing of information

Q84. Answer: (b) checking spelling and grammar

The correct answer is checking spelling and grammar.

Key Points

• Its have no use of the F7 key in Windows.

• In Microsoft programs such as Microsoft Word, Outlook for checking spellings and grammar, the F7 is commonly used.

• Other uses-

• Shift + F7 = Choose the Thesaurus command.

• Ctrl + F7 = Choose the move command.

• Alt + F7 = Find the next misspelling or grammatical error.

Additional Information

• Renaming files and folders- F2 key.

• Opening help- Windows Key + F1 key.

• Searching content in various apps- Windows Key + Q key.

Q85. Answer: (b) Naharkatia-Nunmati-Barauni Pipeline

The correct answer is Naharkatia-Nunmati-Barauni Pipeline.

Key Points

• This was the first pipeline constructed in India to bring crude oil from Naharkatia (Assam) oilfield to Nunmati (Assam).

• It was extended to transport crude oil to the refinery at Barauni in Bihar.

• Total Length of the pipeline 1167 km.

• It is now extended to Kanpur in Uttar Pradesh.

• The pipeline between Naharkatia and Nunmati became operative in 1962 and that between Nunmati and Barauni in 1964.

Additional Information

• Mumbai High-Mumbai-Ankleshwar-Kayoli Pipeline is a 210 km long double-pipeline that connects Mumbai with Mumbai High.

• Ankleshwar-Koyali pipeline was completed in 1965.

• It transports crude oil from Ankleshwar oilfield to the Koyali refinery.

• Hajira-Bijapur-Jagdishpur (HBJ) Gas Pipeline is the longest pipeline of India having a length of 1750 km.

• It was established by the Gas Authority of India.

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Q86. Answer: (d) Deogarh

The correct answer is Deogarh.

Key Points

• The Dashavatara Temple is one of the earliest known temples in North India and is dedicated to Lord Vishnu.

• The Dashavatara Temple or Vishnu Temple also called the Gupta temple is at Deogarh.

• It was built during the Gupta period.

• The temple depicts the ten incarnations of Lord Vishnu.

• The temple also features the idol of Lord Vishnu in a position of Nar Narayan Tapasya and another one shows him reclining on a serpent.

• It was the first temple in North India to have a Shikara.

Q87. Answer: (d) 1498 m/s

The correct answer is 1498 m/s.

Key Points

• Sound is a type of longitudinal, mechanical wave.

• They need a medium to propagate and will not travel through a vacuum.

• Sound travels at different speeds in different media.

• The speed of sound is determined by the density (ρ) and compressibility (K) of the medium.

• Density is the amount of material in a given volume, and compressibility is a measure of how much a substance could be compacted for a given pressure.

• The speed of sound can also be affected by temperature.

• Sound waves tend to travel faster at higher temperatures.

• The denser and the more compressible, the slower the sound waves would travel.

• Water is much denser than air.

• The speed of sound in a medium can be determined by the equation.

• $v = (K\rho)^{-½}$

• where v is the speed of sound,

• K is the compressibility, and

• ρ (rho) is the density.

• Sound waves tend to travel faster at higher temperatures.

• They range from 1450 to 1498 meters per second in distilled water and 1531 m/s in seawater at room temperatures (20 to 25 °C).

Q88. Answer: (c) France

The correct answer is France.

Key Points

• France will train Indian flight surgeons to enable them to monitor the health of astronauts selected for the ambitious human space mission Gaganyaan.

• The two-week training is a critical aspect of the Gaganyaan project.

• It is aimed at sending three Indians to space by 2022.

• A memorandum of understanding on the matter is expected to be signed later this week when French space agency CNES President Jean-Yves Le Gall arrives in Bengaluru.

Important Points

• The Gaganyaan is set to take off on a GSLV Mk III in August 2022.

• The Hindustan Aeronautical Limited and DRDO are helping the mission by providing technological support.

• The DRDO will provide human system support like space-grade food, crew healthcare and other systems

Additional Information

Country	Capital
USA	Washington DC
Russia	Moscow

China	Beijing

Q89. Answer: (d) 152 million km

The correct answer is 152 million km.

Key Points

• It is approximately the average distance between the Earth and the Sun about 150 million km.

• The Earth-Sun orbit distance is defined to be exactly 1.00, and we call this distance 1.00 AUs.

• An Astronomical unit is a unit of length it is used to measure distances within the Solar System.

• 1 A.U. represents the mean distance between the Earth and our sun.

• The mean distance between the sun and the earth is 149,598,000 km.

• In terms of light-years, it is 8.311 minutes.

A light-year is a measure of distance and not of time.

• Light travels at a speed of 300,000 km/second.

• It is the distances that light will travel in one year that is taken to be one light year.

• This equals to 9.461×1012 km.

Additional Information

• - Aphelion is the point on the Earth's elliptical orbit that is farthest away from the Sun.

• Perihelion is the point on the Earth's elliptical orbit that is nearest to the Sun.

An elliptical orbit of a planet is shown in the figure.

Q90. Answer: (a) Electronic Numerical Integrator and Computer

The correct answer is Electronic Numerical Integrator and Computer.

Key Points

• ENIAC stands for Electronic Numerical Integrator And Computer.

• It is considered to be the first operational electronic digital computer in the United States, developed by Army Ordnance to compute World War II ballistic firing tables.

• The first all-electric computing machine was proposed by physicist John Mauchly in 1942 and was completed in 1945.

• The ENIAC weighed 30 tons, used 200 kilowatts of electric power and consisted of 18,000 vacuum tubes, 1,500 relays, and hundreds of thousands of resistors, capacitors, and inductors.

• The ENIAC used 20 single-number accumulators as primary functional units.

• The ENIAC's field of the application included weather prediction, atomic-energy calculations, cosmic-ray studies, thermal ignition, random-number studies, wind-tunnel design, and other scientific uses.

Q91. Answer: (a) Archery

The correct answer is Archery.

Key Points

• Archery is the National Game of Bhutan.

• Bhutan is called the "land of the dragon".

• Bhutan is a small landlocked nation in Asia.

• The official language is Dzongkha, a language closely related to Tibetan and Nepali.

• The capital and largest city is Thimphu.

• The currency of the Bhutan Ngultrum.

Q92. Answer: (b) Sourav Ganguly

The correct answer is Sourav Ganguly.

Key Points

• Ganguly is appointed as the BCCI's 39th President.

• He succeeds C K Khanna, who was the interim head of the Board since 2017.

• Ganguly took over as the new boss at the apex body's Annual General Meeting (AGM) in Mumbai.

• Ganguly, who played 113 Tests and 311 one-day internationals and led India to 21 Test wins, has already been an administrator for his home state association, Cricket Association of Bengal (CAB).

• He is the 2nd Indian cricketer after Maharaja of Vizianagaram to do the role of BCCI president.

• His nomination was validated by BCCI's electoral officer N Gopalaswami.

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Additional Information

• BCCI headquarters in Mumbai.

• BCCI founded: December 1928

Q93. Answer: (c) South Africa

The correct answer is South Africa.

Key Points

• South Africa's Zozibini Tunzi has been crowned Miss Universe for the year 2019, beating more than 90 contestants, including Miss India, from around the globe.

• ,It hosted by American comic-turned-TV personality Steve Harvey, held at Tyler Perry Studios.

• Zozibini Tunzi of South Africa was crowned as Miss Universe for the year 2019. It was the 68th miss universe pageant.

• She is also the first black women winner after Leila Lopes crowned in 2011.

• She is holding the title of Miss South Africa 2019.

• She is the third woman from South Africa to win Miss Universe.

Name	Titles	Country
Catriona Gray	• Miss Universe in the year 2018 and the fourth women from Filipina to win this competition - Miss Universe Philippines 2018 - Miss World Philippines 2016	Philippines
Ashley Alvindrez	• Miss Mexico 2019 - Represented Mexico at Miss World 2019 competition	Mexico
Vartika Singh	• Represented India at 68th Miss Universe 2019 competition - Miss Grand India in 2015	India

Q94. Answer: (c) 2

The correct answer is 2.

Key Points

• Rajiv Gandhi Khel Ratna award is given for the spectacular and outstanding performance in the field of sports by a sportsperson over a period of four years.

• For Rajiv Gandhi Khel Ratna award: Indian wrestler Bajrang Punia and Rio Paralympics silver medallist Deepa Malik.

• To recognize excellence in sports and recognize them, the National Sports Awards are given each year.

• Rajiv Gandhi Khel Ratna Award is given to the most outstanding performance in the field of sports.

• It is given after a period of four years.

• Sh. Bajrang Punia was awarded for Wrestling.

• Ms. Deepa Malik was awarded for Para Athletics.

• Other National Sports Awards include Dronacharya Awards, Arjuna Awards, and Dhyan Chand Award.

Q95. Answer: (d) China

The correct answer is China.

Key Points

• Ethiopia has launched its first satellite in 2019.

• The satellite was launched into space from a space station in China.

• The satellite was designed by Chinese and Ethiopian engineers and the Chinese government paid about $6m of the more than $7m manufacturing costs.

• Solomon Belay is director-general of the Ethiopian Space Science and Technology Institute.

• It is the Remote Sensing Satellite launched from the Entoto Observatory and Research Center.

• The Capital of Ethiopia is Addis Ababa.

Q96. Answer: (a) Service

The Correct Answer is Service.

Key Points

• The services sector has been the major contributor to GDP after the LPG model was implemented.
• The services sector is estimated to grow at 6.9% in 2019-20 as compared to 7.5% in 2018-19.
• It is estimated to contribute 55.3% to India's GVA in 2019-20.
• The services sector accounts for over 50% of the Gross State Value Added in 15 states and UTs.
• India's share in the world's commercial services exports was 3.5% in 2018, twice the share in the world's merchandise exports at 1.7%
• The share of the services sector now exceeds 50 percent of Gross State Value Added in 15 out of the 33 states and UTs, with this share of more than 80 percent in Delhi and Chandigarh.

Additional Information
• The overall industrial sector growth is estimated to be 2.5% in 2019-20 as compared to 6.9% growth in 2018-19.
• The Manufacturing sector is estimated to grow at 2.0% during 2019-20.
• The growth of the agriculture sector is increased from -0.2% in 2014-15 to 6.3% in 2016-17 and then declined to 2.8% in 2019-20.

Q97. Answer: (c) Assamese

The Correct Answer is Assamese.

Key Points
• The novel 'Chanakya' which won the Sahitya Akademi Award in 2019 was in the Assamese language.
• The Novel is written by Joysree Goswami Mahanta.

Additional Information
Sahitya Akademi Awards:-
• It is the literary award in India, which the Sahitya Akademi, India's National Academy of Letters.
• It annually confers on writers of most outstanding books of Literary Merit in the 24 languages.

Sahitya Akademi Award Winners:-

Title and Genre	Author	Language
Mojma Revu Re (Essays)	Ratilal Borisagar	Gujarati
Chheelate hue Apne Ko (Poetry)	Nand Kishore Acharya	Hindi
Ghumer Darja Thele (Essays)	Chinmoy Guha	Bengali

Q98. Answer: (c) Muhammad Quli Qutb Shah

The Correct Answer is Muhammad Quli Qutb Shah.

Key Points
• In 1591 Muhammad Quli Qutb Shah built a new city called Hyderabad on the east bank of the Musi River.
• He was an able administrator and his reign is considered one of the high points of the Qutb Shahi dynasty.
• He was the third son of Sultan Ibrahim Quli Qutub Shah, born in 1565.
• He built the famous Charminar.
• Hyderabad is Telangana's largest and most populous city and is the major urban centre for all of south-central interior India.
• From 1956 to 2014 Hyderabad was the capital of Andhra Pradesh state, but, with the creation of Telangana from Andhra Pradesh in 2014, it was redesigned as the capital of both states.

Q99. Answer: (a) Reserve Bank of India

The Correct Answer is the Reserve Bank of India.

Key Points
• The Reserve Bank of India (RBI) prints and manages currency in India, whereas the Indian government regulates what denominations to circulate.
• The Indian government is solely responsible for minting coins.
• The RBI is permitted to print currency up to 10,000 rupee notes.
• To deter counterfeiting and fraud, the Indian government withdrew the 500 and 1,000 rupee notes from circulation in 2016.
• If the Reserve Bank wants to print anything higher, the government must amend the Reserve Bank of India Act.

Additional Information
NABARD:-

• National Bank for Agriculture and Rural Development (NABARD) is an apex development finance institution fully owned by the Government of India.

• The bank has been entrusted with "matters concerning policy, planning, and operations in the field of credit for agriculture and other economic activities in rural areas in India".

• NABARD is active in developing the Financial Inclusion policy.

State Bank of India:-

• State Bank of India (SBI) is an Indian multinational, public sector banking and financial services statutory body headquartered in Mumbai, Maharashtra.

• SBI is the 43rd largest bank in the world.

ICICI Bank:-

• ICICI Bank Limited is an Indian multinational banking and financial services company with its registered office in Vadodara, Gujarat, and corporate office in Mumbai, Maharashtra.

Q100. Answer: (a) Stratosphere

The Correct Answer is Stratosphere.

Key Points

• Ninety percent of the ozone gas in the atmosphere is occupied by the stratosphere, the layer of the atmosphere between about 10 and 50 kilometers altitude.

• The natural level of ozone gas in the stratosphere is a result of a balance between sunlight that creates ozone gas and chemical reactions that destroy it.

• The Earth's atmosphere consists of several layers.

• The lowest layer, the troposphere, extends from the Earth's surface up to about 10 kilometers in altitude.

• The next layer, the stratosphere, continues from 10 km to about 50 km.

• Ozone is a molecule that contains three oxygen atoms.

• Ozone molecules are constantly formed and destroyed in the stratosphere.

• The ozone layer in the stratosphere absorbs a portion of the radiation from the sun, preventing it from reaching the planet's surface.

• It absorbs the portion of the UV light called UVB.

Additional Information

Thermosphere:-

• The thermosphere is the layer in the Earth's atmosphere directly above the mesosphere and below the exosphere.

• Within this layer of the atmosphere, ultraviolet radiation causes photoionization/photodissociation of molecules, creating ions, the thermosphere thus constitutes the larger part of the ionosphere.

Mesosphere:-

• The mesosphere is directly above the stratosphere and below the thermosphere.

• It extends from about 31 to 53 miles above our planet.

• Temperature decreases with height throughout the mesosphere.

Troposphere:-

• The troposphere is the lowest layer of Earth's atmosphere and the site of all weather on Earth.

• The troposphere is bounded on the top by a layer of air called the tropopause, which separates the troposphere from the stratosphere, and on the bottom by the surface of the Earth.

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