SSC CHSL Previous Paper 27 (Held On: 19 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 most appropriate meaning of the given idiom.

Look before you leap

(a) Pull someone out from a disaster
(b) Think carefully of the consequences
(c) Caution others before taking a step
(d) Prepare yourself before jumping

Q2. Select the word which means the same as the group of words given.

A period of one thousand years

(a) Century
(b) Millennium
(c) Decade
(d) Centenary

Q3. Select the correct indirect form of the given sentence.

Mother said to Kavya, "Switch off the light before you go to sleep."

(a) Mother told Kavya to switch off the light before she goes to sleep.
(b) Mother told Kavya to switch off the light before she went to sleep.
(c) Mother told Kavya to switch off the light before you go to sleep.
(d) Mother told Kavya to switch off the light before she is going to sleep.

Q4. Select the most appropriate ANTONYM of the given word.

SACRED

(a) Pious
(b) Solemn
(c) Profane
(d) Divine

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.

Roman civilization emerged around the sixth century BC. At the height of (1)____ power, the Roman Empire ruled over a huge chunk of (2)__, and all the present-day Mediterranean countries (3)__ part of ancient Rome. Early Rome was (4)__ by kings, but later, the people took control over their own city and ruled (5)____. They introduced a council known as the Senate which ruled over them. From this point, Rome was referred to as the Roman Republic.

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

(a) one's
(b) its
(c) his
(d) their

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

(a) country
(b) land
(c) islands
(d) sea

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

(a) had
(b) have
(c) were
(d) are

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

(a) regulated
(b) conducted
(c) controlled
(d) governed

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

(a) himself
(b) yourself
(c) themselves
(d) ourselves

Q10. Select the word which means the same as the group of words given.

A plantation of grapes

(a) Vineyard
(b) Nursery
(c) Grove
(d) Orchard

Q11. 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 house has a garden in front, is it?

(a) hasn't it
(b) does it
(c) No improvement
(d) isn't it

Q12. Select the most appropriate ANTONYM of the given word.

PERISH

(a) Crumble
(b) Wither
(c) Grow
(d) Vanish

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Q13. 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'.

Many attempts has been made to climb Everest before Tenzing and Hillary succeeded.

(a) No improvement
(b) was made
(c) have been made
(d) had been made

Q14. Select the most appropriate meaning of the given idiom.

Chill out

(a) To fight
(b) To be angry
(c) To calm down
(d) To be nervous

Q15. Select the INCORRECTLY spelt word.

(a) Irrigate
(b) Irrelevant
(c) Irrilegious
(d) Irritable

Q16. Select the INCORRECTLY spelt word.

(a) Tedious
(b) Rebelleous
(c) Victorious
(d) Advantageous

Q17. Select the most appropriate synonym of the given word.

MOROSE

(a) Sullen
(b) Friendly
(c) Optimistic
(d) Cheerful

Q18. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. People in a small Chinese town were shocked to see a wild elephant wandering in their town.

B. The elephant eventually left the town.

C. Authorities followed the large mammal's every movement.

D. But the locals will probably never forget this special visit.

(a) ACBD
(b) ABDC
(c) BDAC
(d) CABD

Q19. Select the most appropriate word to fill in the blank.

The important _____ is where to arrange the funds from.

(a) solution
(b) result
(c) view
(d) issue

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Q20. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. When he returned, there was more than just his dog waiting for him.

B. A koala had joined the dog in the car's more comfortable climate.

C. A winemaker in South Australia left his air-conditioned car open to help keep his dog cool in the heat.

D. Although the human struggled a while to make the koala leave, it did leave his car eventually.

(a) CABD
(b) CBAD
(c) BCDA
(d) BACD

Q21. In the given sentence, identify the segment which contains a grammatical error.

All these boys have come to college without few knowledge of English.

(a) of English
(b) have come to college
(c) All these boys
(d) without few knowledge

Q22. Select the most appropriate synonym of the given word.

AFFLUENT

(a) Wealthy
(b) Destitute
(c) Proficient
(d) Impoverished

Q23. In the given sentence, identify the segment which contains a grammatical error.

Everyone are asking for passes to the music festival at Nehru Park.

(a) at Nehru Park.
(b) to the music festival
(c) for passes
(d) Everyone are asking

Q24. Select the correct passive form of the given sentence.

He spent a lot of money on movies.

(a) A lot of money had been spent by him on movies.
(b) A lot of money is spent by him on movies.
(c) A lot of money was spent by him on movies.
(d) A lot of money was being spent by him on movies.

Q25. Select the most appropriate word to fill in the blank.

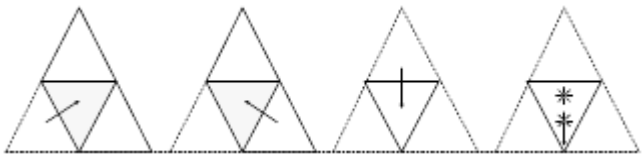
Several villages in Kashmir have been _____ due to heavy snowfall.

(a) divided
(b) engaged
(c) confined
(d) isolated

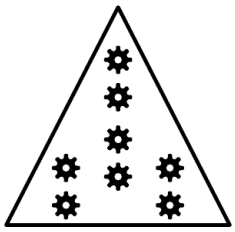
GENERAL INTELLIGENCE

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

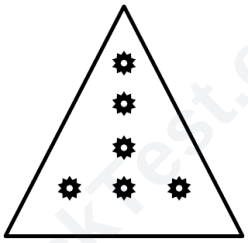
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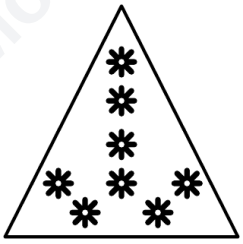
(a)



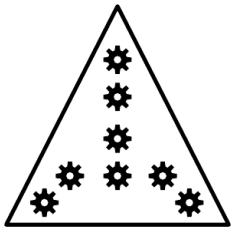
(b)



(c)



(d)



Q27. Select the option that is related to the third term in the same way as the second term is related to the first term.

MAKE : AEKM :: JUST : _____.

(a) UTSS
(b) JSTU
(c) UJTS
(d) UTJS

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

512 : 64

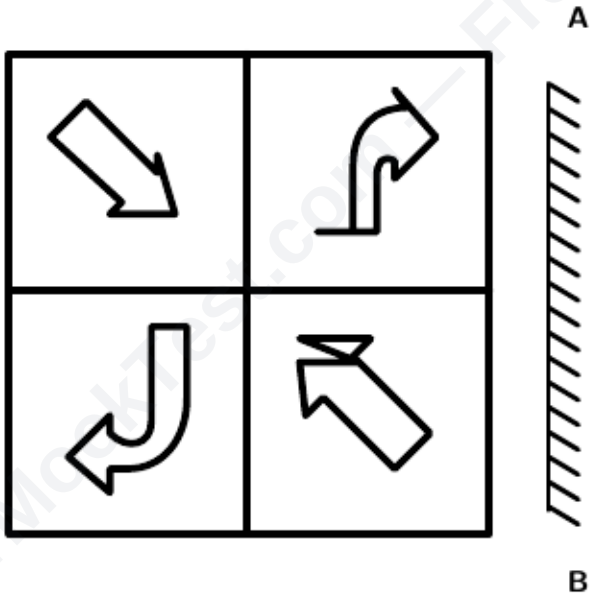
(a) 1000 : 81
(b) 1331 : 144
(c) 1728 : 121
(d) 1331 : 121

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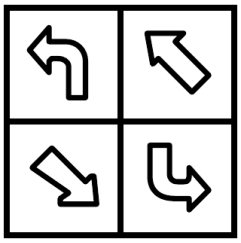
Q29. Train 'A' runs at a speed of 80 kmph and leaves station 'X' at 11 a.m. Train 'B' leaves station 'X' at 11.15 a.m. in the same direction. On the same day. At what speed train 'B' should run in order to catch train 'A' at station 'Y' located at a distance of 60 km?

(a) 110 km/h
(b) 115 km/h
(c) 12 km/h
(d) 120 km/h

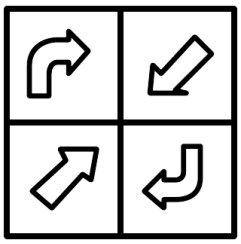
Q30. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



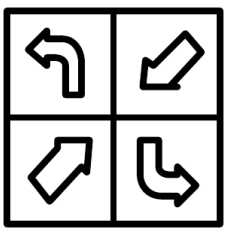
(a)



(b)

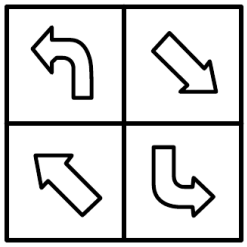


(c)



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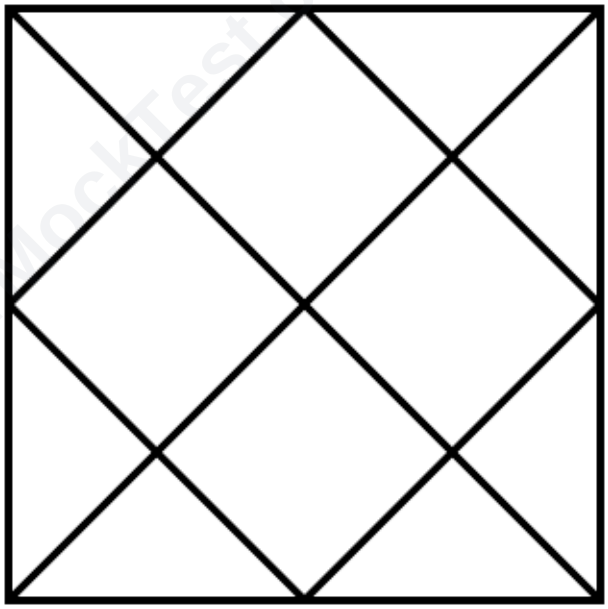
(d)



Q31. 'Advocate' is related to 'Client' in the same way as 'Doctor' is related to '_____'.

(a) Treatment
(b) Disease
(c) Patient
(d) Nurse

Q32. How many triangles are present in the following figure?

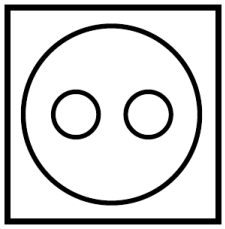


(a) 16
(b) 20
(c) 18
(d) 22

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

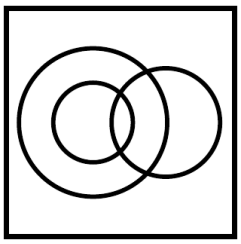
Fathers, Males, Brothers

(a)

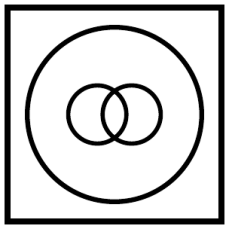


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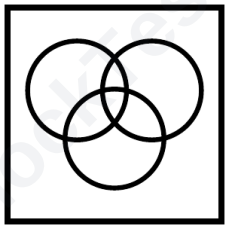
(b)



(c)



(d)



Q34. 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) FHJLN
(b) PRTVX
(c) KMOQS
(d) SQOMK

Q35. 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. Some trees are silver oaks.

2. Some silver oaks are tall objects.

Conclusions:

I. Some tall objects are silver oaks.

II. All tall objects are trees.

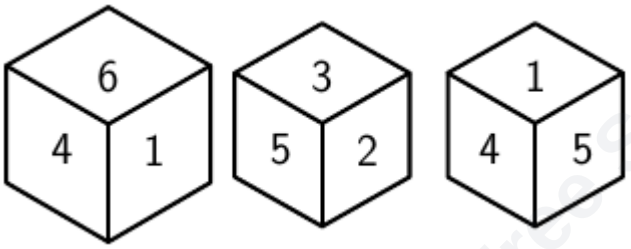
(a) Neither conclusion I nor II follows.
(b) Only conclusion II follows.
(c) Both conclusions I and II follow.
(d) Only conclusion I follows.

Q36. Introducing a boy, Ritika(Girl) said, "He is the son of my father's only son". How is Ritika related to the boy's mother?

(a) Aunt
(b) Cousin
(c) Sister
(d) Sister-in-law

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Q37. Three different positions of the same dice are shown. Select the number that will be on the face opposite to the face having number '5'.



(a) 3
(b) 4
(c) 2
(d) 6

Q38. Arrange the following names in a logical and meaningful order.

1. Socks
2. Necktie
3. Belt
4. Spectacle
5. Armlet

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

Q39. If in a coded language 'ORAL' is written as '1518112', then in the same coded language, 'WRITTEN' will be written as:

(a) 231892020514
(b) 221792929514
(c) 221891919514
(d) 231892020614

Q40. Which two numbers should be interchanged in the following equation to make it correct?

36 ÷ 6 - 15 × 2 + 48 = 14

(a) 2 and 6
(b) 6 and 14
(c) 36 and 48
(d) 48 and 15

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

(26, 144, 18)

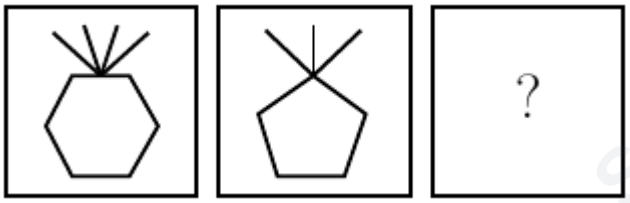
(a) (32, 196, 24)
(b) (18, 120, 13)
(c) (21, 108, 12)
(d) (28, 190, 16)

Q42. In a certain code language, GOOGLE is written as IMQENC. How will PENCIL be written as in that language?

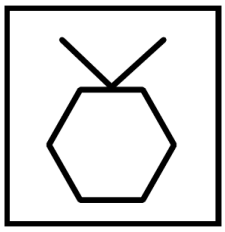
(a) RGPEKN
(b) RCPAKJ
(c) NGLEGN
(d) NCLAGJ

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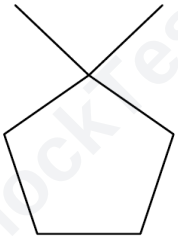
Q43. Select the figure that will come next in the following series.



(a)



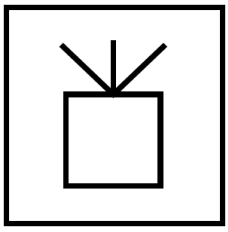
(b)



(c)



(d)



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

80, 79, 75, 66, ?, 25

(a) 50
(b) 46
(c) 57
(d) 54

Q45. Select the option in which the words share the same relationship as that shared by the given pair of words.

Phobia : Fear

(a) Amnesia : Forgetting
(b) Dengue : Mosquitoes
(c) Cough : Infection
(d) Dyslexia : Disability

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Q46. In a certain code language, COBBLER is coded as 130 and TABLE is coded as 93. How will ALMIRAH be coded as in that language?

(a) 123
(b) 129
(c) 127
(d) 125

Q47. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(31, 18, 7)

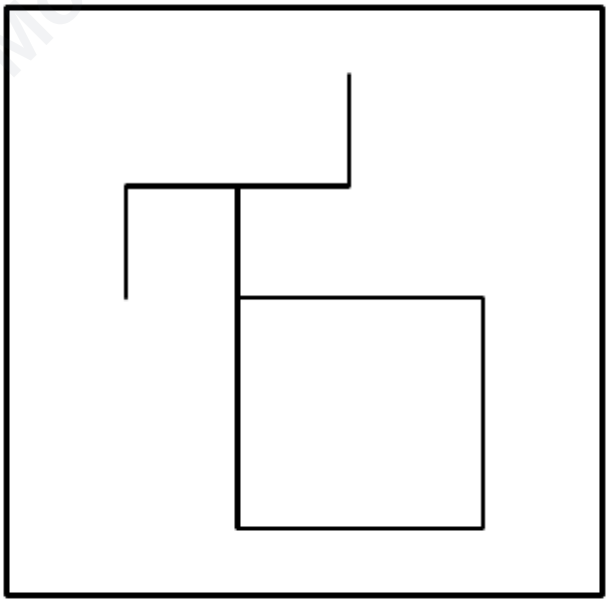
(a) (90, 54, 12)
(b) (70, 38, 20)
(c) (72, 34, 15)
(d) (64, 50, 40)

Q48. Select the number that can replace the question mark (?) in the following series.

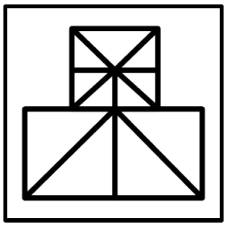
1, 27, 125, 343, 729, ?

(a) 1331
(b) 1029
(c) 1525
(d) 1244

Q49. Select the option in which the given figure is embedded. (Rotation is not allowed.)

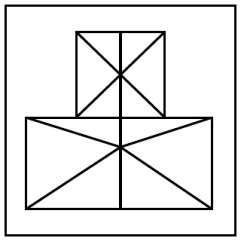


(a)

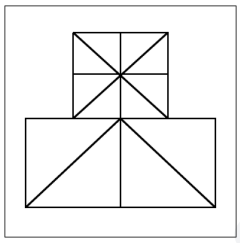


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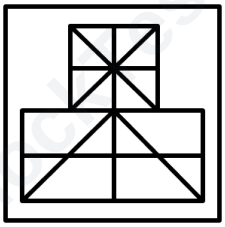
(b)



(c)



(d)



Q50. 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.

JAPAN : NAQAJ : : INDIA : ?

(a) NIEAI
(b) AIDNI
(c) DNIAI
(d) AIENI

QUANTITATIVE APTITUDE

Q51. Find the value of 309 ÷ [(3/2) of (25 + 35) - 12 3/4].

(a) 4
(b) 16
(c) 12
(d) 8

Q52. Anil bought some articles at 6 for Rs. 8 and sold them at 10 for Rs. 12. His percentage loss or gain is:

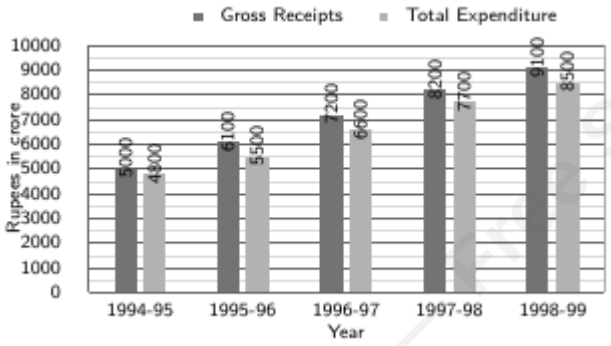
(a) 8% gain
(b) 10% loss
(c) 10% gain
(d) 8% loss

Q53. Marked price of an article is 20% more than it's cost price. At what percent less should it be sold for no profit and no loss?

(a) 14 2/3 %
(b) 14 1/3 %
(c) 16 2/3 %
(d) 16 1/3 %

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Q54. Given bar graph shows, total expenditure and the gross receipts of a company (in Rs. crores). Study the graph and answer the question that follows:



In order to make a profit of 20% what should have been the gross receipts (in crore Rs.) in 1995-96, if the total expenditure remained the same?

(a) 6445
(b) 5776
(c) 6600
(d) 7565

Q55. The diameter of a wheel is 49 cm. The number of revolutions in which it will have to cover a distance of 770 m, is:

(a) 500
(b) 400
(c) 600
(d) 700

Q56. If $\text{cosec}^2x - 2 = 0$, then the value of $x(0 < x < 90°)$ is:

(a) 15°
(b) 60°
(c) 30°
(d) 45°

Q57. 10 men working 5 hours/day earn Rs. 300. How much money will 15 men working 10 hours/day earn?

(a) Rs. 600
(b) Rs. 900
(c) Rs. 800
(d) Rs. 650

Q58. If $a + 3b = 12$ and $ab = 9$, then the value of $(a - 3b)$ is:

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

Q59. A, B, C are three points so that AB = 4 cm, BC = 6 cm and AC = 10 cm. The number of circles passing through the points A, B, C is:

(a) 2
(b) 3
(c) 0
(d) 1

Q60. The printed price of a cooker is Rs. 2,000, and discounts are 30%, 20% and 10% respectively. Find the selling price of the cooker.

(a) Rs. 1,006
(b) Rs. 1,002

(c) Rs. 1,008
(d) Rs. 1,004

Q61. The sum of simple interest on a sum at 8% p.a. for 4 years and 8 years is Rs. 960. The sum is:
(a) Rs. 900
(b) Rs. 1000
(c) Rs. 800
(d) Rs. 1100

Q62. Mohan travels three equal distances at speeds of 12 km/h, 18 km/h and 24 km/h. If he takes a total of 13 hours, then what is the total distance covered?
(a) 214 km
(b) 216 km
(c) 218 km
(d) 212 km

Q63. The value of sin 60° cos30° - cos60° sin30° is:
(a) √3/2
(b) 1/2
(c) 1/√2
(d) 1

Q64. The average of 24 numbers is 26. The average of the first 15 numbers is 23 and that of the last 8 number is 33. Find 16^(th) number.
(a) 16
(b) 15
(c) 17
(d) 18

Q65. If $a^2 + 2/(a^2)=16$, then find the value of $(72a^2)/(a^4+2+8a^2)$
(a) 3
(b) 4
(c) 2
(d) 1

Q66. The centroid of an equilateral ΔXYZ is L. If XY = 12 cm, then the length of XL in cm), is:
(a) 3√3
(b) 2√3
(c) 5√3
(d) 4√3

Q67. If a : b = 3 : 4, find the value of (7a - 4b) : (8a + 4b).
(a) 1 : 8
(b) 2 : 3
(c) 3 : 8
(d) 2 : 5

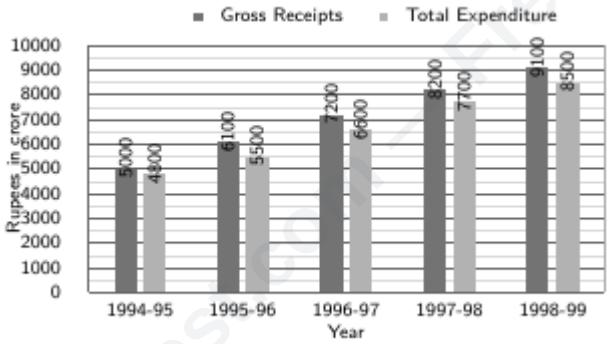
Q68. The side MN of ΔLMN is produced of X. If angle LNX = 117° and angle M = 1/2 angle L, then angle L is:
(a) 76°
(b) 78°
(c) 75°
(d) 77°

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Q69. If $0 < \theta < 90°$, $3b \operatorname{cosec}\theta = a \sec\theta$ and $3a \sec\theta - b \operatorname{cosec}\theta = 8$, then the value of $9b^2 + a^2$ is:

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

Q70. Given bar graph shows, total expenditure and the gross receipts of a company (in Rs. crores). Study the graph and answer the question that follows.



If profit = gross receipts - total expenditure, then in 1997 - 98, what percentage of gross receipts is the profit made? (Correct to one decimal place)

(a) 6.1%
(b) 5.4%
(c) 4.8%
(d) 3.9%

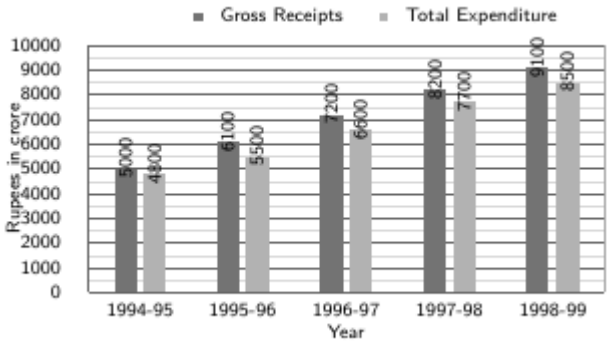
Q71. If 29^(41) + 37^(41) is divided by 33, then the remainder is:

(a) 3
(b) 0
(c) 2
(d) 1

Q72. The sum of the squares of the sides of a rhombus is 900 m^2. What is the side of the rhombus.

(a) 16 m
(b) 15 m
(c) 14 m
(d) 17 m

Q73. Given bar graph shows, total expenditure and the gross receipts of a company (in Rs. crores). Study the graph and answer the question that follows.

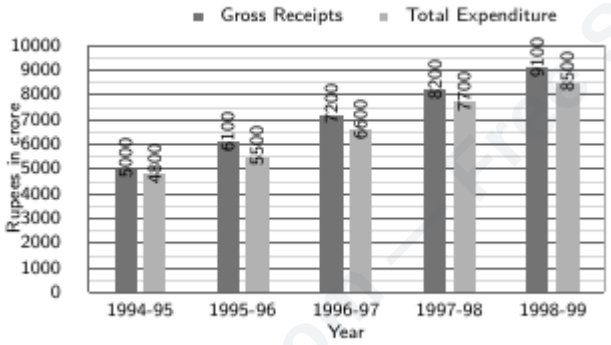


What is the percentage increase in the gross receipts in 1996-97 as compared to 1994-95?

(a) 43%
(b) 41%

(c) 42%
(d) 44%

Q74. Given the bar graph shows, total expenditure and the gross receipts of a company (in Rs. crores). Study the graph and answer the question that follows.



The total expenditure of the company in 1998-99 exceeds that in 1994-95 by (in crores)

(a) 3800
(b) 3700
(c) 4800
(d) 5500

Q75. If $1 + 9r^2 + 81r^4 = 256$ and $1 + 3r + 9r^2 = 32$, then find the value of $1 - 3r + 9r^2$.

(a) 4
(b) 12
(c) 16
(d) 8

GENERAL AWARENESS

Q76. Which of the following are the 5 groups that plants are divided into?

(a) Mollusca, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms
(b) Annelida, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms
(c) Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms
(d) Arthropoda, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

Q77. On 7^(th) January 2020, who among the following was the Chairman of the second National GST Conference and Central and State Commissioners that was held to streamline the Goods and Services Tax?

(a) Anurag Thakur
(b) Amit Shah
(c) Ajay Bhushan Pandey
(d) Nirmala Sitharaman

Q78. In which year was the Dronacharya Award instituted?

(a) 1991
(b) 1978
(c) 1985
(d) 1997

Q79. Which of the following teams did the India Under-15 team defeat with a 7-0 score in the final of the SAFF (South Asian Football Federation) U-15 Championship 2019 held at Kalyani Stadium, West Bengal?

(a) Uzbekistan
(b) Nepal
(c) Turkmenistan

(d) Sri Lanka

Q80. In which year was the Harappan civilization first discovered?

(a) 1905
(b) 1921
(c) 1926
(d) 1932

Q81. In which year was the Second Anglo-Mysore war fought between the Kingdom of Mysore and the British East India Company?

(a) 1780-1784
(b) 1769-1775
(c) 1785-1789
(d) 1766-1769

Q82. Which among the following states won the final of the 25^(th) Senior Women's NFC 2019-20 at Arunachal Pradesh?

(a) Arunachal Pradesh
(b) Odisha
(c) Tamil Nadu
(d) Manipur

Q83. Which environmental phenomenon has been linked to synthetic chemicals like chlorofluorocarbons (CFCs)?

(a) Ozone depletion
(b) Tidal flow
(c) Electromagnetic interference
(d) Wave propagation

Q84. On January 6, 2020, how many Oman ships arrived at Goa to participate in “Naseem-Al-Bahr”, the Indo-Oman bilateral naval exercise?

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

Q85. According to the Motor Vehicles (Amendment) Bill 2019, what is the proposed minimum compensation for hit and run case wherein, the victim dies?

(a) 1,00,000
(b) 2,00,000
(c) 1,50,000
(d) 50,000

Q86. Which of the following ministries launched the two campaigns, named Angikaar and E-course?

(a) Ministry of Housing and Urban Affairs
(b) Ministry of Human Resource and Development
(c) Ministry of Home Affairs
(d) Ministry of Women and Child Development

Q87. Which of the following states will you go to enjoy the famous Gaura-Gauri Puja that is celebrated every year?

(a) Chhattisgarh
(b) Rajasthan
(c) Gujarat
(d) Uttarakhand

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Q88. In which of the following States of India is the Bomdi-La Pass located?

(a) Assam
(b) Sikkim
(c) Arunachal Pradesh
(d) Himachal Pradesh

Q89. Which of these is not an Operating System?

(a) SQL
(b) Mac OS
(c) Linux
(d) Unix

Q90. Where were the Khelo India Youth Games held between January 10-22, 2020?

(a) Nagpur
(b) Bhubaneshwar
(c) Guwahati
(d) New Delhi

Q91. What is the shortcut key for the central alignment of a line or text in MS Office software?

(a) Ctrl+E
(b) Ctrl+A
(c) Ctrl+G
(d) Ctrl+C

Q92. Above which layer of the atmosphere does the Exosphere lies?

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

Q93. Which of the following Articles ensures to provide free and compulsory education to all children in the age group of six to fourteen years as a Fundamental Right to Education?

(a) 18A
(b) 21A
(c) 20A
(d) 14

Q94. What was the name of the mega-ocean that surrounded the single continental mass before the continental drift as described by Alfred Wegener?

(a) Pigmalion
(b) Panama
(c) Panthalassa
(d) Pangaea

Q95. Which of these is an excretory organ of the human body?

(a) Skin
(b) Heart
(c) Brain
(d) Muscles

Q96. On August 13, at what cost did the Dikom Tea Estate of Assam sell its 'Golden Butterfly' tea at the GTAC, auction centre?

(a) Rs. 1,00,000 per kg
(b) Rs. 50,000 per kg
(c) Rs. 25,000 per kg

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(d) Rs. 75,000 per kg

Q97. Which of these eminent personalities is the one to have not received the Bharat Ratna from the Honorable President in the year 2019?

(a) Sachin Tendulkar
(b) Bhupendra Kumar Hazarika
(c) Pranab Mukherjee
(d) Nanaji Deshmukh

Q98. Who among the following is the 15^(th) Chairman of the Finance Commission of India?

(a) C. Rangarajan
(b) Vijay L. Kelkar
(c) Y. V. Reddy
(d) N.K Singh

Q99. Which of the following trees will you find in the Littoral forests?

(a) Ebony
(b) Sundari
(c) Cypress
(d) Chinar

Q100. In which state did the 'Saila' dance originate? The dance is performed by boys after the harvest season.

(a) Bihar
(b) Odisha
(c) Jharkhand
(d) Chhattisgarh

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) Think carefully of the consequences

The solution is in Hindi. Read it online.

Q2. Answer: (b) Millennium

The solution is in Hindi. Read it online.

Q3. Answer: (b) Mother told Kavya to switch off the light before she went to sleep.

The correct answer is 'Mother told Kavya to switch off the light before she went to sleep'.

Key Points

• The given sentence is in Direct Speech. As per the given question we have to change it into Indirect Speech.

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• The process of transformation as follows:
• The given sentence is an example of an Imperative Sentence.
• Transformation of Imperative Sentence.
• 'Orders', 'Command', 'Request', 'Advice' are given in these kinds of sentences.
• Reporting Verb is changed into 'ordered, advised, requested, commanded, beg, forbade, suggested, proposed, assured, asked, reminded, warned, agreed, refused, promised', etc.
• Inverted Commas will be removed. And conjunction 'to/not to' will be used.
• Example:
• He said, "Mohan, please bring me my towel." (Direct Speech)
• He requested Mohan to bring him his towel. (Indirect Speech)
• 'Said to' will be changed into 'told' because the reporting verb has 'object'.
• Comma and inverted commas will be removed.
• 'To' conjunction will be added.
• 'Go' will be changed into 'went'.
• Therefore, the correct answer is Option 2.

Thus the correct sentence is: "Mother told Kavya to switch off the light before she went to sleep."

Q4. Answer: (c) Profane

The correct answer is 'Profane'.

Key Points

• The most appropriate word for the given antonym is 'Profane'.
• Let's look at the meaning and examples of the given options:
• | Sacred | considered to be holy and deserving respect, especially because of a connection with a god | This area is sacred to the Apaches. |

Pious	**strongly believing in religion, and living in a way that shows this belief**	**She is a pious follower of the faith, never missing her prayers.**
Solemn	serious and without any humor	Everyone looked very solemn.
Profane	showing no respect for a god or a religion, often through language	Funny, profane, and fearless, she has become one of America's biggest television celebrities.
Divine	connected with a god, or like a god	Some fans seem to regard the players as divine beings.

• Therefore, by reading the above definition we find that the correct answer is Option 3.

Correct Answer: Profane.

Q5. Answer: (b) its

The correct answer is 'its'.

Key Points

• The most appropriate word for the given fill in the blank is 'its'.
• 'Its' is a possessive determiner we use to say that something belongs to or refers to something.
• In the given question 'its' is used to refer to Roman civilization.
• Therefore, the correct answer is Option 2.

Correct Answer: "At the height of its power, the Roman Empire..."

Additional Information

• 'It's' and 'its' are among the most commonly confused words.
• They are pronounced the same, there's a very small difference in how they're written, and it's also easy to mistake the contraction in 'it's' for a possessive.
• But the rules are very clear—'it's' is the same type of contraction as "where's" or "there's," and 'its' is a possessive just like "my" or "your."

• Correct Usage of 'it's':
• He doesn’t think its a good idea to spend all his money on video games.
• He doesn’t think it’s a good idea to spend all his money on video games.
• Correct Usage of 'it':
• Its been a year since the last time they met.
• It’s been a year since the last time they met.

Q6. Answer: (b) land

The correct answer is 'land'.

Key Points

• The most appropriate word for the given fill in the blank is 'land'.
• Let's look at the meaning and examples of the given Options:
• | Country | an area of land that has its own government, army, etc. | Sri Lanka is my native country, but I've been living in Belgium for the past five years. |

Land	**the surface of the earth that is not covered by water**	**It is cheaper to drill for oil on land than at sea.**
Islands	a piece of land completely surrounded by water	They live on the large Japanese island of Hokkaido.
Sea	the salty water that covers a large part of the surface of the earth, or a large area of salty water, smaller than an ocean, that is partly or completely surrounded by land	When we moved to the US, we sent our things by sea.

• Here, in the given question "A huge chunk of land" is a collective noun.
• Therefore, by reading the above definition we find that the correct answer is Option 2.

Correct Answer: "the Roman Empire ruled over a huge chunk of land..."

Q7. Answer: (c) were

The correct answer is 'were'.

Key Points

• The most appropriate word for the given fill in the blank is 'were'.
• We know that the given sentence is talking about a past time.
• And in this kind of case, the second form of the verb should be used.
• Here, 'countries' is plural. Therefore, a plural form of the verb should be used.
• Therefore, the correct answer is Option 3.

Correct Answer: "all the present-day Mediterranean countries were part of ancient Rome..."

Q8. Answer: (d) governed

The correct answer is 'governed'.

Key Points

• The most appropriate word for the given fill in the blank is 'governed'.
• Let's look at the meaning and examples of the given options:
• | Regulated | controlled by rules or laws | These trusts are cost-effective and well regulated. |

Conducted	**to organize and perform a particular activity**	**The experiments were conducted by scientists in New York.**
Controlled	to order, limit, or rule something, or someone's actions or behavior	The representational flexibility of the hypothesis space approach demands that the complexity of the representations be controlled.
Governed	to control and direct the public business of a country, city, group of people, etc.	The country is being governed by a bunch of incompetents.

• By reading the above definition we find that the correct is Option 4.

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Correct Answer: "Early Rome was governed by kings, but later..."

Q9. Answer: (c) themselves

The correct answer is 'themselves'.

Key Points

• The most appropriate word for the given fill in blank is 'themselves'.

• We know that 'themselves' is used when the subject of the verb is "they" or a group of people, and the object is the same group of people.

• Example: They asked themselves where they had gone wrong.

• Here, in the given sentence the subject is 'the people'. Hence, 'themselves' should be used.

• Therefore, the correct answer is Option 3.

Correct Answer: "the people took control over their own city and ruled themselves..."

Q10. Answer: (a) Vineyard

The correct answer is 'Vineyard'.

Key Points

• The most appropriate one-word for the given statement is 'Vineyard'.

• Let's look at the meaning and examples of the given options:

• | Vineyard | a piece of land on which grapevines are grown (= plants that produce small round fruits used for making wine) | She declared a piece of a vineyard with olive trees, which was valued at 6 florins. |

Nursery	**a place where young children and babies are taken care of while their parents are at work**	**Does Jake go to a nursery or a childminder?**
Grove	a group of trees planted close together	More seeds were removed under solitary palms (88%) than from groves (56%).
Orchard	an area of land where fruit trees (but not orange trees or other citrus trees) are grown	Wholesalers were then questioned about the orchards from which they had obtained their product.

• Therefore, by reading the above explanation we find that the correct answer is Option 1.

Correct Answer: Vineyard.

Q11. Answer: (a) hasn't it

The correct answer is 'hasn't it'.

Key Points

• The given sentence is grammatically correct.

• A positive statement is followed by a negative question tag.

• Example: Mary can speak English, can't she?

• A negative statement is followed by a positive question tag.

• Example: They aren't funny, are they?

• In the given question negative form of 'has' should be used.

• Therefore, the correct answer is Option 1.

Correct Answer: The house has a garden in front, hasn't it?

Additional Information

• If the sentences start with "Let's" (Let us) then "shall we?" should be used as a question tag.

• Example: Let's walk, shall we?

Q12. Answer: (c) Grow

The correct answer is 'Grow'.

Key Points

• The most appropriate antonym of the given word 'Perish' is 'Grow'.

• Let's look at the meaning and examples of the given words:

• | Perish | to die, especially in an accident or by being killed, or to be destroyed | Three hundred people perished in the earthquake. |

Grow	**to increase in size or amount, or to become more advanced or developed**	**This plant grows best in the shade.**
Crumble	to break, or cause something to break, into small pieces	She nervously crumbled the bread between her fingers.
Wither	(to cause) to become weak and dry and decay	The grass had withered in the fields.
Vanish	to disappear or stop being present or existing, especially in a sudden, surprising way	The child vanished while on her way home from school.

• Therefore, by reading the above explanation we find that the correct answer is Option 3.

Correct Answer: Grow.

Q13. Answer: (d) had been made

The correct answer is 'had been made'.

Key Points

• The given sentence is grammatically incorrect. Here, 'had been made' should be used.

• We know that 'before' is used as a preposition, adverb, and conjunction. In the given sentence it is used as an adverb.

• Particularly, it is used as an adverb of time.

• And we know that when 'before' is used as an adverb of time it only takes 'Past Perfect or Past Perfect Continuous' tense.

• Here, in the given question Past Perfect form should be used.

• Therefore, by reading the above explanation we find that the correct answer is Option 4.

Correct Answer: Many attempts had been made to climb Everest before Tenzing and Hillary succeeded.

Mistake Points

• We tend to go for Option 3 but it would be wrong because the given sentence is in the Past Tense. But Option 3 is in the present tense.

• Therefore, the correct answer is Option 4.

Additional Information

• The following phrases are followed by past indefinite/simple tense:

• It's high time, It's Time, It's about time, etc.

• Example: It's high time I started preparing for the exam in Hindi Literature.

Q14. Answer: (c) To calm down

The solution is in Hindi. Read it online.

Q15. Answer: (c) Irrilegious

The correct answer is 'Irrilegious'.

Key Points

• In the given question 'Irrilegious' is incorrectly spelt. Its correct spelling is 'Irreligious'.

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

• | Irrigate | to supply land with water so that crops and plants will grow | Many organic vegetable and fruit farmers said that they irrigate to guard against production risks. |

Irrelevant	**not related to what is being discussed or considered and therefore not important**	**These documents are largely irrelevant to the present investigation.**
Irreligious	having no interest in religion, or generally opposed to religion	This is not to say that Richard was irreligious.
Irritable	becoming annoyed very easily	The baby has really been irritable today.

• Therefore, by reading the above explanation we find that the correct answer is Option 3.

Correct Answer: Irrilegious.

Q16. Answer: (b) Rebelleous

The correct answer is 'Rebelleous'.

Key Points

• The incorrectly spelt word is 'Rebelleous'. Its correct spelling is:

• The correct spelling of it is 'Rebellious'.

• Let's look at the meaning and examples of the given Options:

• | Tedious | boring and tiring, esp. because long or often repeated | Learning a new computer program can be a tedious process. |

Rebellious	**If someone is rebellious, they are difficult to control and do not behave in a way that is expected**	**Her teachers regard her as a rebellious, trouble-making girl.**
Victorious	having won a game, competition, election, war, etc.	The victorious team was loudly cheered by their fans.
Advantageous	giving advantages or helping to make you more successful	The lower tax rate is particularly advantageous to poorer families.

• Therefore, by reading the above explanation we find that the correct answer is Option 2.

Correct Answer: Rebelleous.

Q17. Answer: (a) Sullen

The correct answer is 'Sullen'.

Key Points

• The most appropriate synonym of the given word 'Morose' is 'Sullen'.

• Let's look at the meaning and examples of the given words:

• | Morose | unhappy, annoyed, and unwilling to speak or smile | Why are you so morose these days? |

Sullen	**angry and unwilling to smile or be pleasant to people**	**His daughters stared back at him with an expression of sullen resentment.**
Friendly	behaving in a pleasant, kind way towards someone	I'm on friendly terms with my daughter's teacher.
Optimistic	the quality of being full of hope and emphasizing the good parts of a situation, or a belief that something good will happen	She is optimistic about her chances of winning a gold medal.
Cheerful	happy and positive	You're in a cheerful mood this morning.

• Therefore, by reading the above explanations we find that the correct answer is Option 1.

Correct Answer: Sullen.

Q18. Answer: (a) ACBD

The correct answer is 'ACBD'.

Key Points

• The given sentence is an example of Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• Part A will be the first sentence because it starts with an incident. 'People were shocked to see a wild elephant...' it is the starting of an incident.

• Part C will be the next sentence because we know that a wild elephant entered the town. Part A tells about that.

• Therefore, it would be followed by authorities. Therefore, Part C will be the next sentence.

• Part B will be the next sentence because the elephant itself left the town.

• Lastly, Part D will be used.

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Correct Answer: People in a small Chinese town were shocked to see a wild elephant wandering in their town. Authorities followed the large mammal's every movement. The elephant eventually left the town. But the locals will probably never forget this special visit.

Q19. Answer: (d) issue

The correct answer is 'issue'.

Key Points

• The most appropriate word for the given fill in blank is 'issue'.

• Let's look at the meaning and examples of the given options:

• | Solution | the answer to a problem | There's no easy solution to this problem. |

Result	**something that happens or exists because of something else**	**The road has been widened, but the result is just more traffic.**
View	an opinion, belief, or idea, or a way of thinking about something	In my view, her criticisms were completely justified.
Issue	a subject or problem that people are thinking and talking about	As employers, we need to be seen to be addressing these issues sympathetically.

• In the given sentence arrangement of funds is the 'issue'.

• Therefore, by reading the above explanation we find that the correct answer is Option 4.

Correct Answer: The important issue is where to arrange the funds from.

Q20. Answer: (a) CABD

The correct answer is 'CABD'.

Key Points

• The given sentence is an example of Sentence Jumble.

• The first statement of a sentence jumbled question is usually an independent general statement, a noun, a universal fact, the starting of an incident, or it starts with 'most' or 'once'.

• Part C will be the first sentence because it starts with an incident. 'A winemaker in South Australia left his air-conditioned car open...' is the starting of an incident.

• Part C ends with the winemakers' left air-conditioner open to help keep his dog cool in the heat.

• After the winemakers' return, he saw many dogs. Therefore, the next sentence is Part A. Because Part C and Part A are connected.

• Part B will be the next sentence because 'dog's' were joined by 'koala'.

• Lastly, Part D will be used.

Correct Answer: A winemaker in South Australia left his air-conditioned car open to help keep his dog cool in the heat. When he returned, there was more than just his dog waiting for him. A koala had joined the dog in the car's more comfortable climate. Although the human struggled a while to make the koala leave, it did leave his car eventually.

Q21. Answer: (d) without few knowledge

The solution is in Hindi. Read it online.

Q22. Answer: (a) Wealthy

The correct answer is 'Wealthy'.

Key Points

• The most appropriate synonym of the given word 'Affluent' is 'Wealthy'.

• Let's look at the meaning and examples of the given words:

Affluent	**having a lot of money or owning a lot of things**	**We live in an affluent neighborhood.**
Wealthy	a large amount of money or valuable possessions that someone has	During a successful business career, she accumulated a great amount of wealth.
Destitute	without money, food, a home, or possessions	The floods left thousands of people destitute.

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Proficient	skilled and experienced	It takes a couple of years of regular driving before you become proficient at it.
Impoverished	very poor	one of the most impoverished suburbs of the city

• Therefore, by reading the above definition we find that the correct answer is Option 1.

Correct Answer: Wealthy.

Q23. Answer: (d) Everyone are asking

The correct answer is 'Everyone are asking'.

Key Points

• The erroneous Part 'Everyone are asking' should be 'Everyone is asking'.

• We know that 'each, every, everyone. someone, somebody, nobody, none, one, any, many a, more than one' are singular in meaning.

• Therefore, a singular helping verb/ singular pronoun should be used after them.

• Example: Each student has come.

• By reading the above explanations we find that the correct answer is Option 4.

Correct Answer: Everyone is asking for passes to the music festival at Nehru Park.

Additional Information

• The given structures are the same as that of 'One of'.

• Neither of+Plural Noun/Pronoun+Singular Verb.

• Example: Neither of them looks after him.

• **Either of+Plural Noun/Pronoun+Singular Verb.

• Example: Either of them is at fault.

Q24. Answer: (c) A lot of money was spent by him on movies.

The correct answer is 'A lot of money was spent by him on movies.'

Key Points

• The given question is in Active Voice. As per the given question we have to change it into Passive Voice.

• The process of transformation as follows:

• The subject of the given sentence is 'He'.

• The object of the given sentence is 'A lot of money'.

• The subject will be put in place of the object and the object will be put in place of the subject.

• 'Spent' will be changed into 'was spent' because we know that V2 is changed into 'was+V_(3.)'

• 'He' will be changed into 'him'.

• Therefore, the correct answer is Option 3.

Correct Answer: A lot of money was spent by him on movies.

Q25. Answer: (d) isolated

The correct answer is 'isolated'.

Key Points

• The most appropriate word for the given fill in blank is 'isolated'.

• The meaning of the given words as follows:

• | Divided | split into two or more opposing groups who cannot agree | The party is deeply divided over fundamental issues, such as immigration and the budget deficit. |

Engaged	**having formally agreed to marry**	**Debbie and Christa have just got engaged.**
Confined	to limit activity, person, or problem in some way	Please confine your use of the phone to business calls.
Isolated	not near to other places	You have brought the resources of the modern world to that isolated village.

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• By reading the above explanations we find that the correct answer is 'Isolated'.
• All the other words do not fit here because of their different meaning.
• Therefore, the correct answer is Option 4.

Correct Answer: Several villages in Kashmir have been isolated due to heavy snowfall.

Q26. Answer: (c) [figure]

Given,

The paper is folded and cut as given in the above figure,

So,

Therefore The unfolded paper will look like

Hence, the correct answer is

Q27. Answer: (b) JSTU

We know,

Given,

MAKE : AEKM :: JUST : _____.

The pattern followed here is, the letters are arranged in alphabetical order in the word.

Word	**M**	**A**	**K**	**E**
Alphabetic Order	A	E	K	M

Similarly,

Word	**J**	**U**	**S**	**T**
Alphabetic Order	J	S	T	U

Hence, the correct answer is JSTU.

Q28. Answer: (d) 1331 : 121

Given,

512 : 64

The pattern followed here is,

Similarly,

Hence, the correct answer is 1331 : 121.

Q29. Answer: (d) 120 km/h

Given,

Train 'A' runs at a speed of 80 kmph and leaves station 'X' at 11 a.m. Train 'B' leaves station 'X' at 11.15 a.m. in the same direction. On the same day.

Station 'Y' located at a distance of 60 km.

The train 'A' will reach the station 'Y' at,

Time = Distance / Speed

Time = 60/80 = 3/4 hr = 45 min.

Therefore The train 'A' will reach the station 'Y' at 11:45 a.m.

Therefore To catch train 'A' at the station 'Y', the train 'B' must reach at 11:45 a.m. to the station 'Y'.

So, the train 'B' leaves the station 'X' at 11:15 a.m. and to catch the train 'A', the train 'B' must travel 60 km in 30 min (1/2 hr).

Therefore Speed = Distance / Time

Therefore Speed = 60 ÷ 1/2 = 60 × 2 = 120 kmph

Hence, the correct answer is 120 km/h.

Q30. Answer: (c) [figure]

Given,

In the mirror image, the top and bottom part of the figure remains the same and only the left and right side of the figure interchanges.

Therefore

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Hence, the correct answer is

Q31. Answer: (c) Patient

Given,

'Advocate' is related to 'Client'.

Here we see Advocates have clients in the similar way Doctor has patients and all other options does not follow similar relation.

Therefore The Doctor is related to Patient.

Hence, the correct answer is Patient.

Q32. Answer: (b) 20

Given data -

Hence, '20' is the correct answer.

Q33. Answer: (c) [figure]

Given,

Fathers, Males, Brothers

The Venn diagram that best illustrates the relationship between the above classes is,

Hence the correct answer is

Q34. Answer: (d) SQOMK

We know,

Given,

FHJLN, PRTVX, KMOQS, SQOMK

The pattern followed here is,

F + 2 = H + 2 = J + 2 = L + 2 = N

P + 2 = R + 2 = T + 2 = V + 2 = X

K + 2 = M + 2 = O + 2 = Q + 2 = S

S - 2 = Q + 2 = O + 2 = M + 2 = K

Hence the correct answer is SQOMK.

Q35. Answer: (d) Only conclusion I follows.

Given,

Statements:

1. Some trees are silver oaks.

2. Some silver oaks are tall objects.

Conclusions:

I. Some tall objects are silver oaks.

II. All tall objects are trees.

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

Conclusions:

I. Some tall objects are silver oaks → True (From Venn diagram we see Some tall objects are silver oaks)

II. All tall objects are trees → False (It is possible but not definite)

Hence, the correct answer is the Only conclusion I follow.

Q36. Answer: (d) Sister-in-law

Given,

Introducing a boy, Ritika said, "He is the son of my father's only son".

Here we see Ritika is Boy's mother's Sister-in-law.

Hence, the correct answer is Sister-in-law.

Q37. Answer: (d) 6

Given,

The opposite faces of the dice are,

1	**3**	**5**

2	4	6

Therefore The number that will be on the face opposite to the face having number '5' is '6'.

Hence, the correct answer is 6.

Q38. Answer: (b) 4 - 2 - 5 - 3 - 1

Given,

1. Socks
2. Necktie
3. Belt
4. Spectacle
5. Armlet

The logical and meaningful order is,

4. Spectacle
2. Necktie
5. Armlet
3. Belt
1. Socks

Therefore The order is 4 - 2 - 5 - 3 - 1.

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

Q39. Answer: (a) 231892020514

We know,

Given,

'ORAL' is written as '1518112',

The pattern followed here is,

Similarly,

Hence, the correct answer is 231892020514.

Q40. Answer: (c) 36 and 48

Given,

$36 \div 6 - 15 \times 2 + 48 = 14$

By options,

1) 2 and 6

$= 36 \div 2 - 15 \times 6 + 48$

$= 18 - 90 + 48 = -24 \neq 14$

2) 6 and 14

$36 \div 14 - 15 \times 2 + 48$

$= 2.571 - 30 + 48$

$= 20.57 \neq 14$

3) 36 and 48

$48 \div 6 - 15 \times 2 + 36$

$= 8 - 30 + 36 = 14$

4) 48 and 15

$= 36 \div 6 - 48 \times 2 + 15$

$= 6 - 96 + 15 = -75 \neq 14$

Hence, the correct answer is 36 and 48.

Q41. Answer: (c) (21, 108, 12)

Given,

(26, 144, 18)

The pattern followed here is,

$26 - 18 = 8 \times 18 = 144$

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Similarly,
(21, 108, 12)
21 − 12 = 9 × 12 = 108
Hence, the correct answer is (21, 108, 12).

Q42. Answer: (b) RCPAKJ

We know,
Given,
GOOGLE is written as IMQENC.
The pattern followed here is,
Similarly,
Hence, the correct answer is RCPAKJ.

Q43. Answer: (c) [figure]

Given,
The pattern followed here is the number of lines from the top of the figure is getting less by one and also the side of the polygon.
Therefore
Therefore The figure that will come next in the series
Hence, the correct answer is

Q44. Answer: (a) 50

Given,
80, 79, 75, 66, ?, 25
The pattern followed here is,
80 − (1^2) = 79
79 − (2^2) = 75
75 − (3^2) = 66
66 − (4^2) = 50
50 − (5^2) = 25
Therefore The number that can replace the question mark (?) in the above series is 50.
Hence, the correct answer is 50.

Q45. Answer: (a) Amnesia : Forgetting

Given,
Phobia : Fear
Here we see fear is the synonym of the phobia.
Similarly, the word forgetting is the synonym of the amnesia.
Hence, the correct answer is Amnesia : Forgetting.

Q46. Answer: (d) 125

The logic followed here is:
Sum of positional value of opposite letters of the given word = number code.
COBBLER is coded as 130.
And,
TABLE is coded as 93.
Similarly,
ALMIRAH = ?
Hence, '125' is the correct answer.

Q47. Answer: (a) (90, 54, 12)

The pattern followed here is -
(31, 18, 7) → 31 + 18 = 49 = 7^2
Similarly,
(90, 54, 12) → 90 + 54 = 144 = 12^2

Hence, (90, 54, 12) is the correct answer.

Q48. Answer: (a) 1331

Given,

1, 27, 125, 343, 729, ?

The pattern followed here is,

$(1^3) = 1$

$(3^3) = 27$

$(5^3) = 125$

$(7^3) = 343$

$(9^3) = 729$

$(11^3) = 1331$

Hence, the correct answer is 1331.

Q49. Answer: (a) [figure]

Given,

The given figure is embedded in,

Hence, the correct answer is

Q50. Answer: (d) AIENI

The logic is -

Similarly,

Hence, AIENI is the correct answer.

Q51. Answer: (a) 4

Given:

309 ÷ [(3/2) of (25 + 35) - 12 3/4].

Calculation:

Follow the BODMAS rule as given in the table below:

=> 309 ÷ [(3/2) × 60 - 51/4]

=> 309 ÷ [(180/2) - (51/4)]

=> 309 ÷ [(360/4) - (51/4)]

=> 309 ÷ [(360 - 51)/4]

=> 309 ÷ (309/4)

=> 309 × (4/309)

=> 4

Therefore The correct answer is 4.

Q52. Answer: (b) 10% loss

Given:

Number of articles brought = 6

The cost price of 6 articles = Rs. 8

Number of articles sold = 10

The selling price of 10 articles = Rs. 12

Concept:

First, equal the number of articles sold and brought so that the cost price of the number of articles sold can be determined. Then calculate the profit or loss percentage.

Formula used:

Loss % = [(CP - SP)/CP] × 100

Calculation:

Taking LCM of the number of articles sold and brought;

We get 30.

CP of 30 articles = 8 × 5 = Rs 40

SP of 30 articles = 12 × 3 = Rs. 36

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Loss % = [(40 - 36)/40] × 100
=> (4/40) × 100
=> 100/10
=> 10%
Therefore His percentage of loss is 10%

Q53. Answer: (c) 16 2/3 %

Given:
MP = 120% of CP
Concept:
To sell an object with no profit no loss, it should be sold at CP. Consider the CP be 100 and then proceed.
Formula used:
If 'x' and 'y' are two numbers and y > x
then 'y' is less than 'x' in % is given by
=> [(y - x)/y] × 100
Calculation:
Let the CP of the object be 100.
Because MP = 120% of CP
Therefore MP = (120/100) × 100
=> 120.
Because To sell the object with no profit no loss
=> SP = CP
Therefore % less Price to sell at CP = [(MP - CP)/MP] × 100
=> [(120 - 100)/120] × 100
=> (20/120) × 100
=> 100/6
=> 16 2/3 %
Therefore The correct answer is 16 2/3 %.
Shortcut TrickCalculation:

C.P : M.P	**5**	**6**
M.P : S.P	x	y
C.P : S.P	1	1

So, x : y = 6 : 5
Price decrement % = (1/6) × 100 = 16.66% ~ 16 2/3 %
Therefore The correct answer is 16 2/3 %.

Q54. Answer: (c) 6600

Given:
Expenditure in the year 1995-96 = 5500
Profit % = 20%
Formula used:
Profit % = (Profit/Expenditure) × 100
Profit = Recipient - Expenditure
Calculation:
Because Profit % = (Profit/Expenditure) × 100
=> 20 = (profit/5500) × 100
=> 20 = Profit/55
=> Profit = 55 × 20 = 1100
Therefore Receipts = Expenditure + Profit
=> Receipts = 5500 + 1100
=> Receipts = 6600

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Therefore The correct answer is 6600.

Q55. Answer: (a) 500

Given:

Diameter of wheel = 49 cm

Therefore Radius of wheel = 49/2 = 24.5 cm

Total distance to cover = 770 m = 77000 cm

Concept:

The distance covered by the wheel is the number of revolutions the wheel makes. The distance covered by the wheel in one revolution is the measure of its circumference.

Formula used:

Circumference of circle = 2πr

Number of revolution taken = Total distance/Circumference

Calculation:

Because Circumference of circle = 2πr

=> 2 × (22/7) × (49/2)

=> 154 cm

Therefore Number of revolution taken by the wheel = 77000/154

=> 500 revolutions

Therefore The correct answer is 500 revolutions.

Q56. Answer: (d) 45°

Given:

$\text{cosec}^2x - 2 = 0$

Formula used:

Calculation:

Because $\text{cosec}^2x - 2 = 0$

=> $\text{cosec}^2x = 2$

=> $\text{cosec } x = \sqrt{2}$

Because The value of $\text{cosec } \theta = \sqrt{2}$, when $\theta = 45°$

Therefore $x = 45°$

Q57. Answer: (b) Rs. 900

Given:

Number of men working(M1) = 10

Working Hours/day(T1) = 5hrs

Wage earning by 10 men(W1) = Rs. 300/day

Number of men(M2) = 15

Working Hours/day(T2) = 10 hrs

Formula used:

(M1 × D1 × T1)/W1 = (M2 × T2 × D2)/W2

Calculation:

Because (M1 × D1 × T1)/W1 = (M2 × T2 × D2)/W2

=> (10 × 1 × 5)/300 = (15 × 10 × 1)/W2

=> W2 = (150 × 300)/50

=> W2 = Rs. 900

Therefore The correct answer is Rs. 900.

Q58. Answer: (c) 6

Given:

$a + 3b = 12$

$ab = 9$

Calculation:

Because a + 3b = 12
=> a = 12 - 3b ------(1)
Because ab = 9
Putting the value of 'a' from (1);
=> (12 - 3b) × b = 9
=> 12b - $3b^2$ = 9
=> 4b - b^2 = 3
=> b^2 - 4b + 3 = 0
=> b^2 - b - 3b + 3 = 0
=> b(b - 1) - 3(b - 1) = 0
=> (b - 1) (b - 3) = 0
Therefore b - 1 = 0
=> b = 1
Therefore b - 3 = 0
=> b = 3
Therefore When b = 3 then a = 3
a - 3b = 3 - (3 × 3) = 3 - 9 = (-6)
When b = 1 then a = 9
a - 3b = 9 - (3 × 1) = 9 - 3 = 6

Q59. Answer: (c) 0

Given:
A, B, C three points.
AB = 4 cm
BC = 6 cm
AC = 10 cm
Concept:
Property of formation of triangle is;
Sum of any two sides must be greater than the 3rd side.
i.e. a + b > c where a, b, c are three sides of the triangle.
Calculation:
Because AB + BC = AC
Therefore No triangle can be formed using the three sides given.
Therefore No circle will pass through the points A, B, C.

Q60. Answer: (c) Rs. 1,008

Given:
Marked Price = Rs. 2000
1st Discount % = 30%
2nd discount % = 20%
3rd discount % = 10%
Calculation:
1st discount = 2000 × (30/100)
= Rs. 600
Therefore Price of cooker after 1st discount = Rs. 2000 - Rs. 600
= Rs. 1400
2nd discount = 1400 × (20/100)
= Rs. 280
Therefore Price of cooker after 2nd discount = Rs. 1400 - Rs. 280
= Rs. 1120
3rd Discount = 1120 × (10/100)
= Rs. 112

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Therefore Price of cooker after 3rd discount = Rs. 1120 - Rs. 112
= Rs. 1008
Therefore Selling Price of cooker after all 3 discounts = Rs. 1008
Shortcut TrickSelling Price after all the discount
= 2000 × (70/100) × (80/100) × (90/100)
= Rs. 1008

Q61. Answer: (b) Rs. 1000

Given:
Rate of SI = 8% p.a.
Sum of SI for 4 years and 8 years = Rs. 960
Formula used:
SI = (Principal × Rate × Years)/100
Calculation:
Let, the Principal be 'a' Rupees.
SI for 4 years = (a × 8 × 4)/100
=> 32a/100
SI for 8 years = (a × 8 × 8)/100
=> 64a/100
Sum of SI of 4 years and 8 years = 960
=> (32a/100) + (64a/100) = 960
=> 96a/100 = 960
=> a = (960 × 100)/96
=> a = Rs. 1000
Therefore The sum is Rs. 1000.

Q62. Answer: (b) 216 km

Given:
Speed1 = 12km/h
Speed2 = 18km/h
Speed3 = 24km/h
Total time taken = 13 hours
Formula used:
Speed × times = Distance
=> Distance/speed = times taken
Calculation:
Because Mohan travels 3 equal distance with different speed.
Let, the equal distance travel = a km
Therefore (a/12) + (a/18) + (a/24) = 13
Taking LCM of 12, 18 and 24, we get 72.
Therefore (6a/72) + (4a/72) + (3a/72) = 13
=> (6a + 4a + 3a)/72 = 13
=> 13a/72 = 13
=> a = (13 × 72)/13
=> a = 72 km
Therefore Total distance travelled by him = a + a + a
= 3 × 72 = 216 km
Shortcut TrickCalculation:

Time	Speed	Distance
6	12	72
4	18	

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3	24	

So, Total time taken = (6 + 4 + 3) = 13 units = 13 hrs
Total distance = 72 × 3 = 216
Therefore The correct answer is 216 km.

Q63. Answer: (b) 1/2

Given:
Sin 60° cos 30° - cos 60° sin 30°
Formula used:
sin(A - B) = sin A cos B - cos A sin B
Trigonometric Value of sin 30° = 1/2
Calculation:
Because The given trigonometric equation is
Sin 60° cos 30° - cos 60° sin 30°
It is written in the form
sin A cos B - cos A sin B = sin(A - B)
Therefore Sin 60° cos 30° - cos 60° sin 30° = sin(60° - 30°)
=> sin 30°
=> 1/2
Therefore The correct answer is 1/2.
Alternate MethodWe know that;
sin 60° = (√3)/2
sin 30° = 1/2
cos 30° = (√3)/2
cos 60° = 1/2
Put these values in the given equation:
=> (√3/2) × (√3/2) - (1/2) × (1/2)
=> (3/4) - (1/4)
=> (3 - 1)/4
=> 2/4
=> 1/2
Therefore The correct answer is 1/2.

Q64. Answer: (b) 15

Shortcut Trick
Net deviation from the total average (26):
Deviation of first 15 numbers = 15 × (23 − 26) = −45
Deviation of last 8 numbers = 8 × (33 − 26) = +56
Total deviation = +56 − 45 = +11
16^(th) number = Average − Total deviation = 26 − 11 = 15
Therefore The correct answer is 15.
Alternate Method
Given:
Average of 24 numbers = 26
Average of first 15 numbers = 23
Average of last 8 numbers = 33
Formula: Sum = Average × Number of terms
=> Total sum of 24 numbers = 24 × 26 = 624
=> Sum of first 15 numbers = 15 × 23 = 345
=> Sum of last 8 numbers = 8 × 33 = 264
=> Sum of (15 + 8) numbers = 345 + 264 = 609

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=> 16^(th) number = Total sum − Sum of 23 numbers

=> 16^(th) number = 624 − 609 = 15

Therefore The correct answer is 15.

Additional Information

General Average Formula

Average = (Sum of all observations) ÷ (Total number of observations).

Net Deviation Rule

The sum of deviations of all observations from their arithmetic mean is always zero. This property is used in the Deviation Method to find missing values.

Weighted Average

Combined Average = (n1 × A1 + n2 × A2) ÷ (n1 + n2), where n is the number of items and A is the average.

Q65. Answer: (a) 3

Given:

$a^2 + (2/a^2) = 16$

Calculation:

Because $a^2 + (2/a^2) = 16$

=> $(a^4 + 2)/a^2 = 16$

=> $a^4 + 2 = 16a^2$ ------(1)

Now, putting the value of (1) in the given question:

=> $72a^2/(16a^2 + 8a^2)$

=> $72a^2/(24a^2)$

=> 3

Therefore The correct answer is 3.

Q66. Answer: (d) 4√3

Given:

ΔXYZ is equilateral.

Side XY = 12 cm

'L' is centroid of ΔXYZ

Concept:

In equilateral triangles, angle bisector, median, perpendicular bisector are all same. The centroid lies on the median/angle bisector/perpendicular bisector of the triangle. In any triangle, the centroid is 2/3 along the median.

Formula used:

Median of equilateral triangle = (√3/2) × a, where 'a' is side.

Calculation:

IN ΔXYZ

Median XM = (√3/2) × 12 = 6√3 cm

Because L is the centroid;

Therefore XL = (2/3) × (XM)

Therefore XL = (2/3) × 6√3

=> XL = 4√3 cm

Therefore The answer is 4√3 cm.

Q67. Answer: (a) 1 : 8

Given:

a : b = 3 : 4

Concept:

In the given ratio, replace the ratio with a variable and put their value in the given question to get the answer.

Calculation:

Let a be 3x, and b be 4x

Put the values of 'a' and 'b' in the given ratio;

=> (7a - 4b) : (8a + 4b)

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=> [(7 × 3x) - (4 × 4x)] : [(8 × 3x) + (4 × 4x)]

=> (21x - 16x) : (24x + 16x)

=> 5x : 40x

=> 1 : 8

Therefore The value is 1 : 8.

Q68. Answer: (b) 78°

Given:

angle LNX = 117°

angle M = (1/2) angle L

=> angle L = 2angle M

Concept:

Using the linear pair concept, determine the value of angle LNM, and then using the angle sum property, calculate the value of angle L.

Calculation:

Because angle LNX + angle LNM = 180° ------(Linear Pair)

=> angle LNM = 180° - angle LNX

=> angle LNM = 180° - 117°

=> angle LNM = 63°

Because In ΔLMN;

angle L + angle LNM + angle M = 180° ------(Angle sum property)

=> angle L + 63° + (angle L/2) = 180°

=> 2angle L + 126° + angle L = 180° × 2

=> 3angle L = 360° - 126°

=> 3angle L = 234°

=> angle L = 234°/3

=> angle L = 78°

Therefore The correct answer is 78°.

Q69. Answer: (c) 9

Given:

3b cosecθ = a secθ

3a secθ - b cosecθ = 8

Formula used:

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

Calculation:

Because 3b cosecθ = a secθ

=> 9b cosecθ = 3a secθ ------(1)

Because 3a secθ - b cosecθ = 8

=> 9b cosecθ - b cosecθ = 8 ------(From 1)

=> 8b cosecθ = 8

=> b cosecθ = 1

=> b = 1/cosecθ ------(2)

=> b = sinθ ------(3)

Because 3a secθ - b cosecθ = 8

=> 3a secθ - (cosecθ/cosecθ) = 8

=> 3a secθ - 1 = 8

=> 3a secθ = 9

=> a secθ = 3

=> a = 3/secθ

=> a = 3cosθ ------(4)

Putting the values of 'a' and 'b' from (3) and (4) in $9b^2 + a^2$

=> 9 $(\sin\theta)^2$ + $(3\cos\theta)^2$

=> 9 $\sin^2\theta$ + 9 $\cos^2\theta$

=> 9($\sin^2\theta$ + $\cos^2\theta$)

=> 9 × 1

=> 9

Therefore The correct answer is 9.

Q70. Answer: (a) 6.1%

Given:

In year 1997-98

Gross recipient = 8200

Expenditure = 7700

Profit = Gross recipient - Expenditure

Formula used:

Value in 'x' in terms of 'y' in % = (x/y) × 100

Calculation:

Because Profit made in year 1997-98 = 8200 - 7700

= 500

Therefore Profit made in terms of gross recipient in % = (500/8200) × 100

= 500/82

= 6.09%

≈ 6.1%

Q71. Answer: (b) 0

Concept:

X^(2n−1)+ Y^(2n−1) is Divisible by X + Y for All n in N.

Calculation:

So using the property

2941 + 3741 will be divisible by (29 + 37) = 66

Therefore The given expression will also be divisible by 33

Therefore Remainder = 0

Q72. Answer: (b) 15 m

Given:

4(side of rhombus)^2 = 900 m^2

Concept:

The side of a rhombus is equal.

Calculation:

Let the side of the rhombus 'a'

Therefore Sum of side of Rhombus = 4a

Because $4a^2$ = 900 m^2

=> a^2 = 900/4 m^2

=> a = √(900/4) m

=> a = 30/2 m

=> a = 15 m

Therefore The correct answer is 15 m.

Q73. Answer: (d) 44%

Given:

Gross Recipient in 1994-95 = 5000

Gross recipient in 1996-97 = 7200

Formula used:

% increase = [(Final Value - initial value)/initial value] × 100

Calculation:

% increase in Gross recipient = [(7200 - 5000)/5000] × 100

=> (2200/5000) × 100

=> 220/5

=> 44%

Therefore The correct answer is 44%.

Q74. Answer: (b) 3700

Given:

Expenditure in 1994-95 = 4800

Expenditure in 1998-99 = 8500

Calculation:

Therefore The difference = 8500 - 4800 = 3700

Therefore The correct answer is 3700.

Q75. Answer: (d) 8

Given:

1 + 9r² + 81r^4 = 256

1 + 3r + 9r² = 32

Formula used:

(a + b) (a - b) = a² - b²

Calculation:

Let 1 - 3r + 9r² = x

So (1 + 9r² + 3r) (1 + 9r² - 3r) = 32x

=> (1 + 9r²)² - 9r² = 32x

=> 1 + 81r^4 + 18r² - 9r² = 32x

=> 1 + 81r^4 + 9r² = 32x

=> 256 = 32x

=> x = 256/32 = 8

Therefore The value of 1 - 3r + 9r2 = 8

Q76. Answer: (c) Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

The Correct Answer is Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms.

Key Points

• Based on whether plants have a well-differentiated body and the presence or absence of specialized tissues for transport, and the ability to bear seeds Kingdom Plantae (Plant Kingdom) is can be classified into different divisions.

• Thallophyta

• The plant body is not differentiated from roots, stems, and leaves.

• They are commonly called algae.

• Bryophyta

• These are small terrestrial plants.

• They show differentiation in the body design, with stem, leaf-like structures, and root-like structures.

• Pteridophyta

• The plant body is differentiated into roots, stems, and leaves, apart from having a specialized tissue for conduction.

• Gymnosperms

• Gymnosperms are plants with naked seeds.

• Angiosperms

• Angiosperms are seed-bearing plants. Seeds develop inside tissues that get modified to form the fruit of the plant.

Q77. Answer: (c) Ajay Bhushan Pandey

The Correct Answer is Ajay Bhushan Pandey.

Key Points

• On January 7, 2020, the second National GST Conference and Central and State Commissioners were held to streamline the

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Goods and Services Tax.

• The Revenue Secretary of Ministry of Finance Dr Ajay Bhushan Pandey was the Chairman of the conference.

Important Points

• GST Council

• It is a constitutional body under Article 279A.

• It makes recommendations to the Union and State Government on issues related to Goods and Service Tax and was introduced by the Constitution (One Hundred and First Amendment) Act, 2016.

• The GST Council is chaired by the Union Finance Minister and other members are the Union State Minister of Revenue or Finance and Ministers in-charge of Finance or Taxation of all the States.

Additional Information

• Anurag Singh Thakur is a member of Parliament from Hamirpur in Himachal Pradesh.

• He is the Minister of State for Finance and Corporate Affairs. (2020).

• Amit Shah is a member of Parliament from Gandhinagar.

• He is currently serving as the Minister of Home Affairs. (2020).

• Nirmala Sitharaman is a member of the Rajya Sabha.

• She is the current Minister of Finance and Corporate Affairs of India.(2020).

Q78. Answer: (c) 1985

The Correct Answer is 1985.

Key Points

• The Dronacharya Award was instituted in 1985.

• These awards are given by the Government of India for Excellency in the field of sports coaching.

• The award is given only to the disciplines included in the events like Olympic Games, Paralympic Games, Asian Games, Commonwealth Games, World Championship, and World Cup along with Cricket, Indigenous Games, and Parasports.

Q79. Answer: (b) Nepal

The Correct Answer is Nepal.

Key Points

• India Under-15 team defeated Nepal with a 7-0 score in the final of the SAFF.

• The 2019 SAFF U-15 Championship was hosted by India at Kalyani Stadium in West Bengal from August 21 to August 31, 2019.

Important Points

• SAFF

• South Asian Football Federation (SAFF) is an association of the football playing nations in South Asia and is part of the larger Asian Football Confederation.

• It was founded in 1997.

• Its founding members are Bangladesh, India, Maldives, Nepal, Pakistan, and Sri Lanka.

• Bhutan joined the federation in 2000 and Afghanistan joined in 2005.

• Afghanistan left the SAFF in 2015.

Q80. Answer: (b) 1921

The Correct Answer is 1921.

Key Points

• Harappa was an Indus civilization urban centre.

• It lies in Punjab Province, Pakistan, on an old bank/bed of the River Ravi.

• Harappa was the first site of the civilization to be excavated in 1921.

• The excavation team was led by Daya Ram Sahni.

Important Points

• Mohenjo-Daro was discovered in 1922 by R. D. Banerji.

Q81. Answer: (a) 1780-1784

The Correct Answer is 1780-1784.

Key Points

• The second Anglo-Mysore war was fought in 1780-84 between the Kingdom of Mysore and the British East India Company.

• The immediate cause of the war was the attack on the French port Mahe by British troops led by Warren Hastings.

• During the war, Hyder Ali died but his son Tipu Sultan continued the struggle.

• Meanwhile, the French came to his assistance, and finally, the Treaty of Mangalore (1784) was signed.

Important Points

• The First Anglo-Mysore War - 1767–69

• The Second Anglo-Mysore War- 1780–84

• The Third Anglo-Mysore War- 1790–92.

• The Fourth Anglo-Mysore War- 1798–99.

Q82. Answer: (d) Manipur

The Correct Answer is Manipur.

Key Points

• On 24 September 2019, defending champion Manipur defeated the Railways and won the final of the 25^(th) Hero Senior Women's NFC 2019-20 at the CHF Ground in Pasighat, Arunachal Pradesh.

• Bala Devi is the highest scorer in the tournament with 20 goals. Whereas, Railways' Sanju was declared the Player of the tournament.

• Arunachal Pradesh had hosted the tournament for the first time.

Additional Information

• Hero Senior Women's NFC

• This championship is a national level inter-state Championship, which is played every year at one venue chosen by the AIFF Executive Committee.

• All affiliated State Associations of AIFF are eligible to participate in this Championship, which is played on league-cum-knockout basis.

Q83. Answer: (a) Ozone depletion

The Correct Answer is Ozone depletion.

Key Points

• Ozone depletion means the gradual thinning of Earth's ozone layer in the upper atmosphere.

• Ozone depletion is caused by the release of chemical compounds containing gaseous chlorine or bromine from industry and other human activities.

• Ozone depletion occurs when chlorofluorocarbons (CFCs) and halons released into the atmosphere.

• Ozone absorbs ultraviolet radiation which is harmful to humans, animals, and plants.

Additional Information

• The Montreal Protocol (1987) is an international commitment to phase out ozone-depleting chemicals that was universally ratified by all countries that participate in the UN.

Q84. Answer: (c) 2

The Correct Answer is 2.

Key Points

• On January 6, 2020, two Oman ships arrived in Goa to participate in "Naseem-Al-Bahr".

• The "Naseem-Al-Bahr" is a naval bilateral exercise between India and Oman.

Additional Information

• India- Oman Other Military Exercise

• "Al Najah" is the army exercise conducted between the countries.

• "Ex Eastern Bridge" is the Air Force exercise that is held between the countries.

• Other bilateral Naval Exercises

• Slinex - India and Srilanka

• Indra Navy- India and Russia

• Konkana - India and UK

• Varuna- India and France

Q85. Answer: (b) 2,00,000

The Correct Answer is 2,00,000.

Key Points

• The Motor Vehicles (Amendment) Bill increases the minimum compensation for hit and runs cases as follows

• in case of death, from Rs 25,000 to two lakh rupees

• In the case of grievous injury, from Rs 12,500 to Rs 50,000.

Important Points

• Motor Vehicle Amendment Bill 2019

• The maximum penalty for driving under the influence of alcohol or drugs has been increased from Rs 2,000 to Rs 10,000.

• If a vehicle manufacturer fails to comply with motor vehicle standards, the penalty will be a fine of up to Rs 100 crore, or imprisonment of up to one year, or both.

• The Bill defines a good samaritan as a person who renders emergency medical or non-medical assistance to a victim at the scene of an accident.

• The Bill requires the central government to constitute a Motor Vehicle Accident Fund, to provide compulsory insurance cover to all road users in India.

Q86. Answer: (a) Ministry of Housing and Urban Affairs

The Correct Answer is Ministry of Housing and Urban Affairs

Key Points

• ‘Angikaar’ a digital initiative and management and e-course on Vulnerability Atlas of India.

• The e-course on Vulnerability Atlas is offered by the ministry of housing and urban affairs in collaboration with the School of Planning and Architecture (SPA), and Building Materials and Technology Promotion Council (BMTPC).

Important Points

• Ministry of Housing and Urban Affairs looks at the formulation and administration of the rules and regulations and laws relating to housing and urban development in India.

• The Ministry of Human Resource Development, formerly Ministry of Education, is responsible for the development of human resources in India.

• The Ministry of Women and Child Development is an apex body for formulation and administration of the rules and regulations and laws relating to women and child development in India.

Q87. Answer: (a) Chhattisgarh

The Correct Answer is Chhattisgarh.

Key Points

• The Gauri Gaura puja is celebrated in Chhattisgarh.

• The main theme of this festival is to worship the goddess Gauri.

Additional Information

• Festivals celebrated in Chattisgarh includes

• Koriya Mela

• Fagun Wadai

• Champaran Mela

• Madai Festival

• Goncha Festival

• Pola Festival

• Hareli Festival

• Narayanpur Mela

• Bhoramdeo Festival

• Teej Festival

• Festivals celebrated in Rajasthan includes

• Teej Fair

• Pushkar Festival.

• Desert Festival.

• Nagaur Fair.

• Gangaur Festival.

• Camel Festival.

• Mewar Festival.

• Urs Festival.

• Navratri, Kite festival, Kutch Utsav, Modhera dance festival are few important festivals of Gujarat.

• Popular Fairs & Festivals in Uttarakhand Includes
• Nandadevi Mela
• Purnagiri Mela
• Syalde Bikhauti Mela
• Phool Dei Festival
• Uttarakhandi Holi
• Harela and Bhitauli Festival
• Ganga Dussehra Festival
• International Yoga Festival Rishikesh

Q88. Answer: (c) Arunachal Pradesh

The Correct Answer is Arunachal Pradesh.

Key Points

• The Bomdi-La pass connects Arunachal Pradesh with Lhasa, the capital city of Tibet.
• It is located in the Northeastern state of Arunachal Pradesh.

Important Points

• Passes in Arunachal Pradesh

Bom Di La	Arunachal Pradesh with Bhutan
Dihang Pass	Arunachal Pradesh and Myanmar.
Yonggyap Pass	Arunachal Pradesh with Tibet
Dipher Pass	trijunction of India, China, and Myanmar
Kumjawng Pass	Arunachal Pradesh with Myanmar
Hpungan Pass	Arunachal Pradesh with Myanmar
Chankan Pass	Arunachal Pradesh with Myanmar

Q89. Answer: (a) SQL

The Correct Answer is SQL.

Key Points

• SQL stands for Structured Query Language.
• SQL is used to communicate with a database.
• According to ANSI (American National Standards Institute), it is the standard language for relational database management systems.

Important Points

• Operating System
• An Operating System (OS) is an interface between a computer user and computer hardware.
• It is software that performs all the basic tasks like file management, memory management, process management, handling input and output, and controlling peripheral devices such as disk drives and printers.
• Mac OS, Linux, Unix, Windows are few examples of Operating systems.

Q90. Answer: (c) Guwahati

The Correct Answer is Guwahati.

Key Points

• The third Khelo India Youth Games was held from 10 January 2020 and 22 January 2020 in Guwahati, Assam.
• The champions trophy was handed over to Maharashtra, the first runner up trophy to Haryana, and the second runner-up trophy to Delhi.
• It is held for two categories, namely under-17 years of school students and under-21 college students.
• It is organized by the Ministry of Youth Affairs & Sports.

Q91. Answer: (a) Ctrl+E

The Correct Answer is Ctrl+E.

Key Points

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• Ctrl + E makes the text in a word document centered.

Important Points

• Ctrl + A Selects all text.

• Ctrl + G opens the Find and replace options.

• Ctrl+C Copy the selected text.

Additional Information

Word shortcut keys

Ctrl + A -- Select all contents of the page.
Ctrl + B -- Bold highlighted selection.
Ctrl + C -- Copy selected text.
Ctrl + X -- Cut selected text.
Ctrl + N -- Open new/blank document.
Ctrl + O -- Open options.
Ctrl + P -- Open the print window.
Ctrl + F -- Open find box.
Ctrl + I -- Italicise highlighted selection.
Ctrl + K -- Insert link.
Ctrl + U -- Underline highlighted selection.
Ctrl + V -- Paste.
Ctrl + Y -- Redo the last action performed.
Ctrl + Z -- Undo last action.
Ctrl + G -- Find and replace options.
Ctrl + H -- Find and replace options.
Ctrl + J -- Justify paragraph alignment.
Ctrl + L -- Align selected text or line to the left.
Ctrl + Q -- Align selected paragraph to the left.
Ctrl + E -- Align selected text or line to the centre.
Ctrl + R -- Align selected text or line to the right.
Ctrl + M -- Indent the paragraph.
Ctrl + T -- Hanging indent.
Ctrl + D -- Font options.
Ctrl + Shift + F -- Change the font.
Ctrl + Shift + > -- Increase selected font +1.
Ctrl +] -- Increase selected font +1.
Ctrl + [-- Decrease selected font -1.
Ctrl + Shift + * -- View or hide non printing characters.
Ctrl + (Left arrow) -- Move one word to the left.
Ctrl + (Right arrow) -- Move one word to the right.
Ctrl + (Up arrow) -- Move to the beginning of the line or paragraph.
Ctrl + (Down arrow) -- Move to the end of the paragraph.

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Ctrl + Del -- Delete word to the right of the cursor.
Ctrl + Backspace -- Delete word to the left of the cursor.
Ctrl + End -- Move cursor to end of the document.
Ctrl + Home -- Move cursor to the beginning of the document.
Ctrl + Space -- Reset highlighted text to default font.
Ctrl + 1 -- Single-space lines.
Ctrl + 2 -- Double-space lines.
Ctrl + 5 -- 1.5-line spacing.
Ctrl + Alt + 1 Change text to heading 1.
Ctrl + Alt + 2 Change text to heading 2.
Ctrl + Alt + 3 Change text to heading 3.
F1 -- Open help.
Shift + F3 -- Change case of selected text.
Shift + Insert -- Paste.
F4 -- Repeat the last action performed (Word 2000+).
F7 -- Spell check selected text and/or document.
Shift + F7 -- Activate the thesaurus.
F12 -- Save as.
Ctrl + S -- Save.
Shift + F12 -- Save.
Alt + Shift + D -- Insert the current date.
Alt + Shift + T -- Insert the current time.
Ctrl + W -- Close document.

Q92. Answer: (c) Thermosphere

The Correct Answer is Thermosphere.

Key Points

• The exosphere is the outermost layer of the Earth's atmosphere.

• It starts at an altitude of about 500 km and goes out to about 10,000 km.

Important Points

• The column of the atmosphere is divided into five different layers depending upon the temperature condition.

• They are the troposphere, stratosphere, mesosphere, thermosphere, and exosphere.

• The troposphere is the lowermost layer of the atmosphere. Its average height is 13 km and extends roughly to a height of 8 km near

the poles and about 18 km at the equator.

• The zone separating the troposphere from the stratosphere is known as the tropopause.

• The stratosphere is found above the tropopause and extends up to a height of 50 km.

• It contains the ozone layer.

• The mesosphere lies above the stratosphere, which extends up to a height of 80 km.

• The ionosphere is located between 80 and 400 km above the mesopause.

• The thermosphere is known as the exosphere.

• This is the highest layer but very little is known about it.

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Q93. Answer: (b) 21A

The Correct Answer is 21A.

• Article 21A deals with the Right to Education.

• This article states that the State shall provide free and compulsory education to all children of the age of six to fourteen years in such manner as the State may, by law, determine.

• The 86th amendment to the constitution of India in 2002, provided Right to Education as a fundamental right in Part-III of the Constitution. Tapas Majumdar Committee (1999) was set up, which encompassed the insertion of Article 21A.

Additional Information

• Article 18 deals with the Abolition of Titles.

• No title, not being a military or academic distinction, shall be conferred by the State.

• No citizen of India shall accept any title from any foreign State.

• Article 20 has taken care to safeguard the rights of persons accused of crimes.

• It says that no person shall be convicted of any offence except for violation of a law in force at the time of the commission of the Act charged as an offence, nor be subjected to a penalty greater than that which might have been inflicted under the law in force at the time of the commission of the offence.

• Article 14

• Equality before the law.

• The state shall not deny to any person equality before the law or equal protection law within the territory of India.

Q94. Answer: (c) Panthalassa

The Correct Answer is Panthalassa.

Key Points

• According to Wegener, all the continents formed a single continental mass and mega ocean surrounded the same.

• The supercontinent was named PANGAEA, which meant all earth.

• The mega-ocean was called PANTHALASSA, meaning all water.

Additional Information

• Continental drift theory deals with the distribution of the oceans and the continents.

• It was first suggested by a German meteorologist, Alfred Wegener in 1912.

• Around 200 million years ago Pangaea started splitting and broke down into two large continental masses as Laurasia and Gondwanaland forming the northern and southern components respectively.

• Subsequently, Laurasia and Gondwanaland continued to break into various smaller continents that exist today.

Q95. Answer: (a) Skin

The Correct Answer is Skin.

Key Points

• The skin plays a role in excretion through the production of sweat by sweat glands.

• Sweating eliminates excess water and salts, as well as a small amount of urea, a byproduct of protein catabolism.

Additional Information

• The heart is a muscular organ about the size of a fist, located just behind and slightly left of the breastbone.

• The heart pumps blood through the network of arteries and veins called the cardiovascular system.

• The human brain is the central organ of the human nervous system

• The spinal cord makes up the central nervous system.

Q96. Answer: (d) Rs. 75,000 per kg

The Correct Answer is Rs 75,000 per kg.

Key Points

• On August 13, Dikom Tea Estate of Assam had sold its Golden Butterfly tea at Rs. 75,000 per kg at the GTAC, auction centre.

• Golden Butterfly is produced by Dikom Tea Estate.

• The tea was purchased by Assam Tea Traders.

• The tea is named such because only the soft golden tips go into making tea.

Q97. Answer: (a) Sachin Tendulkar

The Correct Answer is Sachin Tendulkar.

Key Points

• Former President Pranab Mukherjee, Assamese singer-composer Bhupen Hazarika and social activist Nanaji Deshmukh were awarded the Bharat Ratna for the year 2019.

• Sachin Tendulkar was conferred the Bharat Ratna in 2014.

Additional Information

• The Bharat Ratna was instituted in 1954.

• It is awarded in recognition of exceptional service/performance of the highest order in any field of human endeavour

• The recommendations for the Bharat Ratna are made by the Prime Minister to the President with a maximum of three nominees being awarded per year.

• Recipients receive a Sanad (certificate) signed by the President and a peepal-leaf–Shaped medallion; there is no monetary grant associated with the award.

• Bharat Ratna recipients rank seventh in the Indian order of precedence.

Q98. Answer: (d) N.K Singh

The Correct Answer is N.K Singh.

Key Points

• The Fifteenth Finance Commission is led by N K Singh.

• Its recommendations will cover a period of five years from April 2020 to March 2025.

Important Points

• The Finance Commission is a constitutional body, that determines the method and formula for distributing the tax proceeds between the Centre and states, and among the states as per the constitutional arrangement and present requirements.

• Under Article 280 of the Constitution, the President of India is required to constitute a Finance Commission at an interval of five years or earlier.

Additional Information

• Chakravarthi Rangarajan is a former Member of Parliament and 19^(th) Governor of the Reserve Bank of India.

• Vijay L. Kelkar is an Indian economist and academic and is currently the Chairman of the Forum of Federations, Ottawa & India Development Foundation.

• Y. V. Reddy served as governor of the Reserve Bank of India from 6 September 2003 until 5 September 2008.

Q99. Answer: (b) Sundari

The Correct Answer is Sundari.

Key Points

• Littoral and Swamp Vegetation are called Mangrove Vegetation or Tidal Forests.

• They are found in the tidal deltas of Ganga, Mahanadi, Godavari and Krishna rivers.

• These vegetations are adapted to High water salinity and Floods at regular intervals.

• Sundari trees are found in the Sundarban Delta.

• Avicennia, Bruguiera, Ceriops, and Rhizophora are few tree species found in the Mangrove region.

Additional Information

• The ebony tree is found in tropical evergreen forests.

• Cypress is a common name for various coniferous trees found in colder regions.

• The Chinar is a deciduous tree.

• The chinar sheds its leaves once a year.

Q100. Answer: (d) Chhattisgarh

The Correct Answer is Chhattisgarh.

Key Points

• The Saila dance is a folk danc and is performed during the post-harvest season.

• Saila is a stick dance that is famous among the people of Sarguja, Chhindwara, and Baitul districts of Chhattisgarh and Madhya Pradesh.

Additional Information

• Other folk dances of Chattisgarh:

• Karma Dance

• This dance form marks the end of the rainy season and the advent of spring.

• Sua Nacha

• Usually called a parrot dance, it is performed during Goura's wedding.

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• Pandavani
• Portray the account of Pandavas, the main characters of an epic battle.
• Panthi Dance
• It is a prominent custom of the Satnami community of Chhattisgarh.
• The community celebrates the anniversary of the birth of Guru Ghasidas in Maghi Purnima.
• Rahas Dance
• The Rahas dance is performed during festivals in Chhattisgarh.
• It is an important folk dance performed in the Dhamtari district of the state.

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