SSC CHSL Tier-1 2021: Official Paper (Held On : 30 May 2022 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2021 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the most appropriate ANTONYM of the given word.

Clamour

(a) Quiet
(b) Complaint
(c) Babble
(d) Danger

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

This is credible information provided by the informer.

(a) detachable
(b) commendable
(c) digestible
(d) dependable

Q3. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The thief / entered the house, / in the middle of the night, / quiet.

(a) The thief
(b) in the middle of the night
(c) entered the house
(d) quiet

Q4. Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.

He is such an untruthful man, that no one will believing him.

(a) will believing him
(b) He is such
(c) that no one
(d) an untruthful man,

Q5. Select the option that will improve the underlined part of the given sentence.

The sweet and bitter memories of her past make her weak and sad.

(a) ought to make her pallid and unhappy
(b) had to make her pale and unhappy
(c) must make her pastel and unhappy
(d) made her feeble and unhappy

Q6. Select the most appropriate meaning of the given idiom.

Have a soft spot for someone

(a) To argue something with no effect
(b) To like someone a lot
(c) To show the true nature of someone
(d) To resolve a problem successfully

Q7. In the following passage, a word has been deleted. Read the passage carefully and select the most appropriate option to fill in the blank.

In a _____ move, the robbers chose their next place of attack over 255 km away from the locations they had earlier _____ in Dewas.

(a) righteous, incorporated
(b) noble, decided
(c) shrewd, targeted
(d) corrupt, vanished

Q8. Select the most appropriate synonym of the given word.

Reconnoitre

(a) Glance
(b) Disclaim
(c) Inspect
(d) Overlook

Q9. Select the most appropriate synonym of the given word.

Rescind

(a) Revoke
(b) Sign
(c) Validate
(d) Accredit

Q10. Select the option that expresses the given sentence in active voice.

The thieves were caught by the police.

(a) The police was caught the thieves.
(b) The police were caught the thieves.
(c) The police had caught the thieves.
(d) The police caught the thieves.

Q11. Select the most appropriate meaning of the given idiom.

Pull the plug

(a) End something
(b) Distract someone
(c) Launch something
(d) Annoy someone

Q12. Select the INCORRECTLY spelt word.

(a) Possession
(b) Jealous
(c) Suspecious
(d) Luxurious

Q13. Select the option that expresses the given sentence in passive voice.

One expects better behaviour from a senior student.

(a) Better behaviour was expected from senior student.
(b) As a senior student you need to behave.

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(c) Better behaviour is expected from a senior student.

(d) Senior student behaviour is expected better.

Q14. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. One morning the Giant was lying awake in bed when he heard some lovely music.

B. Then the Hail stopped dancing over his head, and the North Wind ceased roaring, and a delicious perfume came to him through the open casement. “I believe the Spring has come at last,” said the Giant; and he jumped out of bed and looked out.

C. It was really only a little linnet singing outside his window, but it was so long since he had heard a bird sing in his garden that it seemed to him to be the most beautiful music in the world.

D. It sounded so sweet to his ears that he thought it must be the King’s musicians passing by.

(a) ADCB

(b) BACD

(c) BADC

(d) ACDB

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

At loggerheads

(a) In one’s absence

(b) At mercy

(c) Disagreeing with

(d) To write down

Q16. Select the most appropriate ANTONYM of the highlighted and underlined word.

Let’s ascertain whether his claims have any truth.

(a) detect

(b) approve

(c) disprove

(d) prove

Q17. Select the option that can be used as a one-word substitute for the given group of words.

A journey undertaken by a group of people with a particular purpose, especially that of exploration or research.

(a) Voyage

(b) Expedition

(c) Sojourn

(d) Pilgrimage

Q18. Select the correct option to fill in the blank.

She couldn’t eat the_____ pizza by herself

(a) whole

(b) heal

(c) hole

(d) haul

Q19. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select ‘No substitution required’.

I am watching a movie, when my mother came into the room.

(a) I watched a movie

(b) I was watching

(c) I would be watching

(d) No substitution required

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Q20. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The notice / that the office / posted over the wall / is very appropriate.

(a) that the office
(b) posted over the wall
(c) The notice
(d) is very appropriate

Directions

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

The contract (1) _____ the author and the reader is a game. And the game is one of the greatest inventions (2) _____ Western civilisation: the game of telling stories, inventing characters and creating the (3) _____ paradise of the individual, from whence no one can be expelled (4) _____, in a novel, no one owns the truth and everyone has the right to be (5) _____ and understood.

Q21. Select the most appropriate option to fill in blank number 1.

(a) as
(b) between
(c) before
(d) beside

Q22. Select the most appropriate option to fill in blank number 2.

(a) in
(b) of
(c) since
(d) about

Q23. Select the most appropriate option to fill in blank number 3.

(a) plausible
(b) imaginary
(c) drastic
(d) transparent

Q24. Select the most appropriate option to fill in blank number 4.

(a) beside
(b) across
(c) beyond
(d) because

Q25. Select the most appropriate option to fill in blank number 5.

(a) prejudiced
(b) neglected
(c) heard
(d) removed

GENERAL INTELLIGENCE

Q26. In a certain code language, ‘PULSE’ is written as ‘QTMRF’ and ‘HEART’ is written as ‘IDBQU’. How will ‘LIVER’ be written in that language?

(a) KJWFS
(b) MHWDS
(c) MJUFS
(d) MKWFQ

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Q27. If 13 September 2003 is a Saturday, then what will be the day of the week on 14 February 2005?

(a) Friday
(b) Wednesday
(c) Monday
(d) Saturday

Q28. In a certain code language, 'GRAPES' is written as 'EPYNCQ' and ‘ROSE’ is written as ‘PMQC’. How will 'SAGE' be written in that language?

(a) QYCE
(b) CYEQ
(c) QEYC
(d) QYEC

Q29. Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

9 : 17 :: 22 : ? :: 30 : 59

(a) 22
(b) 56
(c) 43
(d) 72

Q30. Which of the following numbers will replace the question mark (?) in the given series?

67, 79, 64, ?, 61, 85

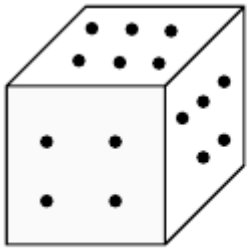
(a) 82
(b) 84
(c) 80
(d) 83

Q31. Which of the following numbers will replace the question mark (?) in the given series ?

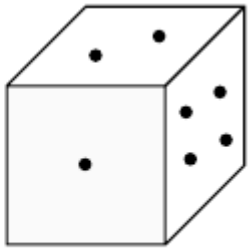
2, 26, ?, 170, 290, 442

(a) 50
(b) 37
(c) 65
(d) 82

Q32. Two different positions of the same dice are shown. What is the number of dots on the face opposite to the one with four dots?



(i)



(ii)

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

Q33. Which of the following numbers will replace the question mark (?) in the given series?

12, 37, 114, 347, 1048, ?

(a) 3252
(b) 3153

(c) 3253
(d) 3152

Q34. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

ABILITY : ITYLABI :: INSTEAD : EADTINS :: ENGLISH : ?

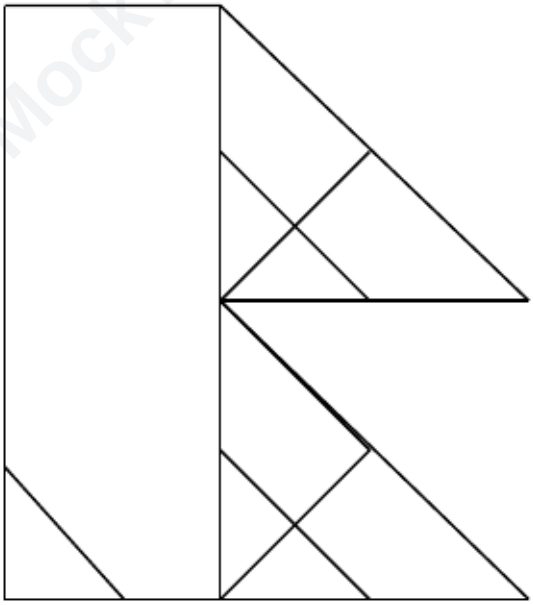
(a) ISHLENG
(b) LISHNGE
(c) ESHLING
(d) IHSLEGN

Q35. If I denotes '÷', J denotes '×', K denotes '−' and L denotes '+', then what will come in place of '?' in the following equation?

15 L (3 J 9) K (12 J 2) L (189 I 9) L 29 = ?

(a) 72
(b) 65
(c) 62
(d) 68

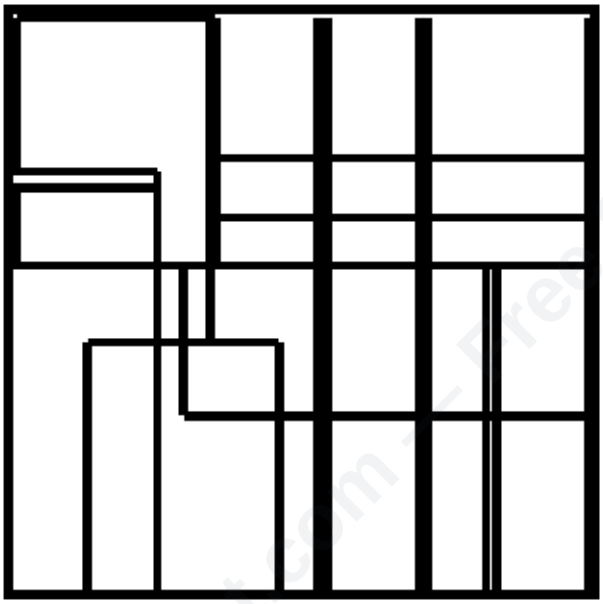
Q36. How many triangles are there in the given figure?



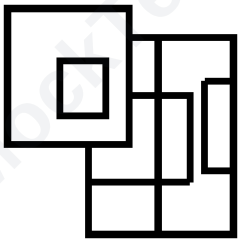
(a) 13
(b) 12
(c) 15
(d) 14

Q37. Select the option that is embedded in the given figure as its part (rotation is NOT allowed).

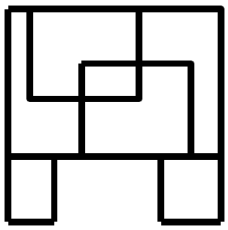
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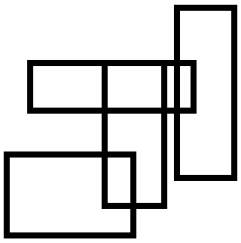
(a)



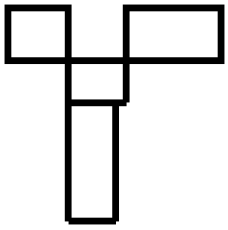
(b)



(c)



(d)



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Q38. Select the option that represents the letters that, when placed from left to right in the blanks, will complete the letter series.

D _ R X E C M R _ E _ M R X _ A M _ X E

(a) B X M E R
(b) E B X M R
(c) M X B E R
(d) X M B E R

Q39. Which of the following numbers will replace the question mark (?) in the given series?

2168, 1979, 1790, 1601, 1412, ?

(a) 1223
(b) 1301
(c) 1212
(d) 1179

Q40. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Bear : Cub :: Owl : Owlet :: Deer : ?

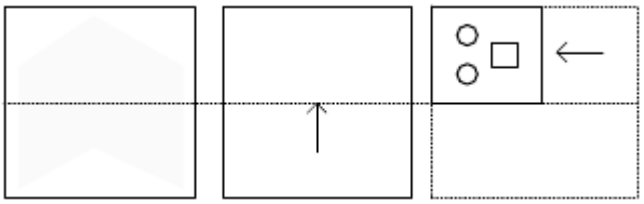
(a) Fawn
(b) Pup
(c) Calf
(d) Foal

Q41. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

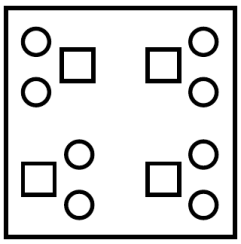
4 : 31 :: 7 : 223 :: 6 : ?

(a) 137
(b) 133
(c) 122
(d) 131

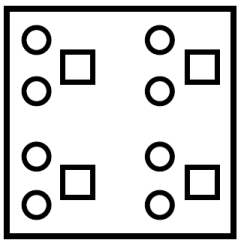
Q42. A paper is folded and cut as shown. How will it appear when unfolded?



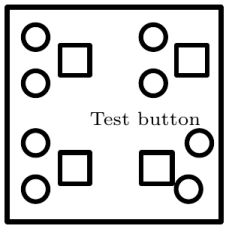
(a)



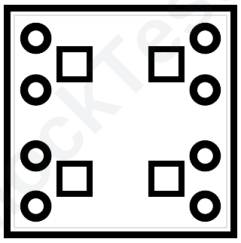
(b)



(c)



(d)



Q43. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

16 * 4 * 8 * 10 * 2 * 16

(a) ×, ÷,–,+, =
(b) –,÷,+,×, =
(c) ÷,+,×,–, =
(d) ÷,–,+, ×, =

Q44. Which letter-cluster will replace the question mark (?) to complete the given series?

RJGZ, NQWM, ?, FECM, BLSZ

(a) JXMZ
(b) KQDZ
(c) KWMZ
(d) JWZM

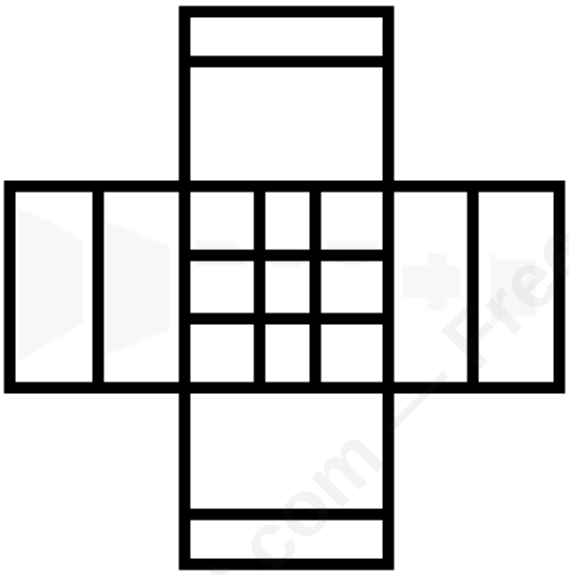
Q45. Which of the following numbers will replace the question mark (?) in the given number series?

209, 318, 427, 536, ?, 754

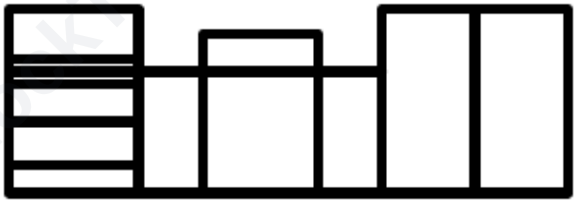
(a) 655
(b) 645
(c) 664
(d) 635

Q46. Select the option figure which is embedded in the given figure as its part (rotation is NOT allowed).

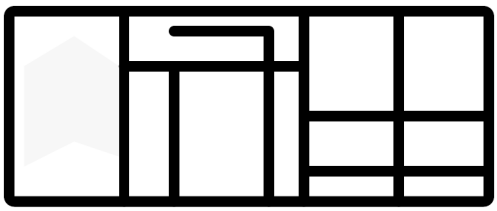
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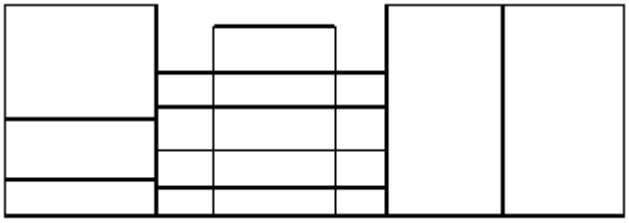
(a)



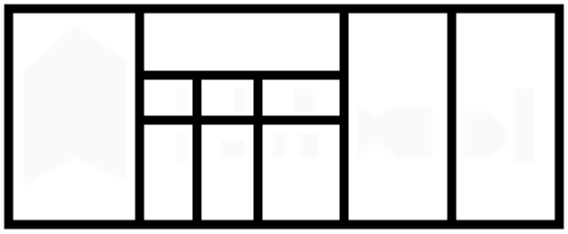
(b)



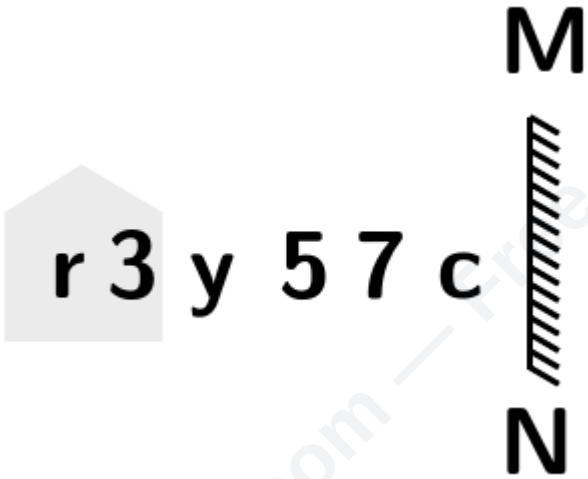
(c)



(d)



Q47. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



Q48. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

48 * 6 * 17 * 3 * 12 * 5 * 1

(a) ×,−,=,+,×,+

(b) ÷,+,−,=,+,×

(c) +,=,−,×,+,÷

(d) ÷,+,×,=,×,−

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Q49. Select the correct option that indicates the arrangement of the following words in a logical and meaningful order.

1.Solar System

2.Earth

3.India

4.Asia

5.Milky way

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

Q50. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some rains are cyclones.

Some cyclones are draughts.

No draught is a thunder.

Conclusions:

I. Some cyclones are rains.

II. No thunder is a cyclone.

III. No draught is a rain.

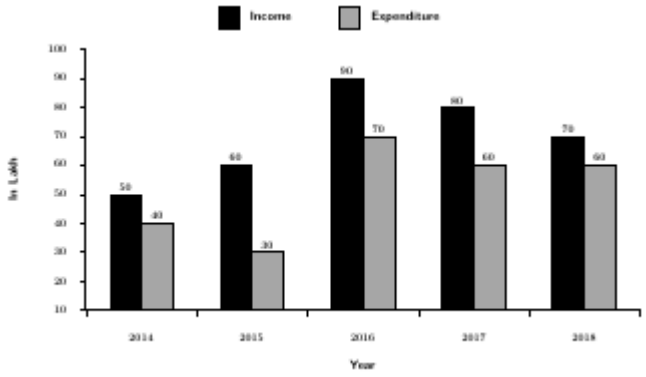
(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Only conclusions I and III follow
(d) Only conclusions I and II follow

QUANTITATIVE APTITUDE

Q51. A can do a piece of work in 15 days, but with the help of B, he can do it in 9 days. In what time can B do it alone?

(a) 22.5 days
(b) 18 days
(c) 21 days
(d) 20.5 days

Q52. The following bar charts provides information on the income and the expenditure of a company in five consecutive years from 2014 to 2018.



Find the difference between the profits made by the company in the years 2015 and 2017.

(a) Rs. 10 lakhs
(b) Rs. 12 lakhs
(c) Rs. 5 lakhs

(d) Rs. 15 lakhs

Q53. The value of sine 18º is given as √5-1over4. Using this value, find the value of cos 18º.

(a) √(10+2√5)over4
(b) √5+1over4
(c) √6+√2over4
(d) √(10-2√5)over4

Q54. On buying 24 bangles Isha gets 6 bangles free of cost. What percent does Isha get as a discount?

(a) 25%
(b) 20%
(c) 10%
(d) 15%

Q55. The following table shows the marks of four students in four different subject in an examination. Who among the four students scored the lowest aggregrate mark, when marks obtained in all the four subjects were taken together?

Name	English	Hindi	Maths	Science
P	65	75	72	58
Q	73	67	78	52
R	71	59	55	65
S	57	73	58	71

(a) P
(b) R
(c) S
(d) Q

Q56. A shopkeeper mixes two qualities of rice, which cost him Rs. 40 per kg and Rs. 47.50 per kg respectively, in such a way that he has 15 kg of the blended rice costing him a total of Rs. 645. What is the weight (in kg) of the rice that cost him Rs. 47.50 per kg?

(a) 5
(b) 6
(c) 10
(d) 9

Q57. A is the average mark of a group of 10 students in a class and A + 8 is the average of a group of 15 students which includes the group of 10 students as given. The total marks obtained by the group of 10 students is X and the total marks obtained by the group of 15 students is Y. If X : Y = 3 : 5, then the value of A + X + Y is _____.

(a) 1964
(b) 1845
(c) 2012
(d) 1992

Q58. Two trains leave Agra for Calcutta at 9:00 a.m. and 9:30 a.m., respectively, and travel at 240 km/h and 300 km/h, respectively. How many kilometres from Agra will the two trains meet?

(a) 270 km
(b) 300 km
(c) 600 km
(d) 240 km

Q59. The identity $4(z + 7)(2z – 1) = Az^2 + Bz + C$ holds for all real values of z. Find the value of $A^2 – B – C$.

(a) -16
(b) 40
(c) 36

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(d) 16

Q60. Find the total surface area of a container in cylindrical shape whose diameter is 14 cm and height is 25 cm. [Use π = 22/7]

(a) 1452 cm²
(b) 1392 cm²
(c) 1408 cm²
(d) 1424 cm²

Q61. What is the difference between the compound interest on Rs. 10,000 for 1 1over2 years at 4% per annum compounded yearly and half-yearly?

(a) Rs. 4.80
(b) Rs. 5.01
(c) Rs. 6.02
(d) Rs. 4.08

Q62. The following table gives the marks scored out of 100 by Amit, Bablu, Cavin and Darshan in 5 subjects.

Subjects	Amit	Bablu	Cavin	Darshan
Math	98	89	96	88
Biology	95	95	99	94
Physics	96	97	94	96
Chemistry	89	86	87	88
English	96	95	94	98

Who among the following secured an average score of exactly 94%?

(a) Darshan
(b) Cavin
(c) Bablu
(d) Amit

Q63. A shopkeeper wanted to sell Rs. 3,000 worth of product. He gave two options - giving three successive discounts of 10% each, or giving a single discount of 30%. If a buyer chooses the former option how much extra/less does he pay as compared to the second option?

(a) Rs. 87 less
(b) Rs. 60 extra
(c) Rs. 87 extra
(d) Rs. 60 less

Q64. At an election there were two candidates. A candidate got 38% of votes and lost by 7200 votes. The total number of valid votes is _____.

(a) 27360
(b) 30000
(c) 273600
(d) 3600

Q65. If x = 9, then the value of x^5 - 10x^4 + 10x³ - 10x² + 10x - 1 is:

(a) 10
(b) 8
(c) 9
(d) 1

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Q66. The third proportional of 42 and 63 is:

(a) 96.2
(b) 63.8
(c) 94.5
(d) 42.5

Q67. A man travelled by car from city A to city B at a speed of 24 km/h and returned from city B to city A at 16 km/h. Find his average speed over the whole journey.

(a) 19.5 km/h
(b) 20 km/h
(c) 19 km/h
(d) 19.2 km/h

Q68. A solid toy is in the shape which is a combination of a cylinder, cone and a hemispherical bowl. The cylinder contributes to 50% of the total volume of the toy, the cone contributes to 20% of the volume. Find the ratio of the contribution (in terms of volume) of the cone, cylinder and hemispherical bowl.

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

Q69. $\{(28 - 3^3) + 99\} + 136 \div 4 \times 5 - (44 - 2^2) = ?$

(a) 250
(b) 200
(c) 230
(d) 270

Q70. Find the area of the sector of a circle of radius 7 cm with a central angle of 90°.

(a) 38.50 cm^2
(b) 35 cm^2
(c) 20.67 cm^2
(d) 28 cm^2

Q71. If a company gives a discount of 20% on the marked price of an article and gains 20% on that particular article, then at what percentage above the cost price did the company mark its goods?

(a) 50%
(b) 20%
(c) 40%
(d) 25%

Q72. The total surface area of a cuboid of length 90 cm, breadth 50 cm and height 4 m is:

(a) 18.15 m^2
(b) 1.21 m^2
(c) 6.05 m^2
(d) 12.1 m^2

Q73. The average of the natural numbers divisible by 5 from the integers -10 to 35 is:

(a) -13.88
(b) 17.5
(c) 15
(d) 20

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Q74. If $2x + y = 8$ and $xy = 6$, then find the value of $4x^2 + y^2$

(a) 24
(b) 16
(c) 28
(d) 40

Q75. The length of the longest stick that can be fitted in a cubical vessel having an edge of length 20 cm, is _____.

(a) 20 cm
(b) 20 √2 cm
(c) 10 √3 cm
(d) 20 √3 cm

GENERAL AWARENESS

Q76. _____ is a world-renowned exponent of the Bansuri or bamboo flute.

(a) Anjanibai Malpekar
(b) Meera Banerjee
(c) Ajoy Chakrabarty
(d) Hari Prasad Chaurasia

Q77. As of March 2021, with a throw of 88.07 m, javelin star Neeraj Chopra set a national record in the third Indian Grand Prix in _____.

(a) Jallandhar
(b) Bhatinda
(c) Patiala
(d) Ludhiana

Q78. Which of the following freedom fighters wrote 'The Story of My Experiments with Truth'?

(a) BR Ambedkar
(b) Jawahar Lal Nehru
(c) Mahatma Gandhi
(d) Bhagat Singh

Q79. Rajeev Taranath, a disciple of Ali Akbar Khan, is a _____ player.

(a) tabla
(b) Flute
(c) Sarod
(d) Santoor

Q80. Kum Kum Mohanty received the Padma Shri award for her contribution to which of the following dance forms?

(a) Chhau
(b) Manipuri
(c) Bharatanatyam
(d) Odissi

Q81. Which of the following angles of the flow of factor payments forms the basis to estimate the national income?

(a) Consumption angle
(b) Expenditure angle
(c) Income distribution angle
(d) Production angle

Q82. 'Straight from the Heart: An Autobiography' is the autobiography of which of the following Indian cricketers?

(a) Kapil Dev
(b) Sourav Ganguly
(c) Sachin Tendulkar

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(d) Yuvraj Singh

Q83. Which of the following cities will be the host of Summer Olympics 2028?

(a) Michigan
(b) Chicago
(c) New York
(d) Los Angeles

Q84. In the case of Vikas KishanRao Gawali vs _____, in January 2021, the Supreme Court observed that OBC reservation cannot exceed 50%.

(a) State of Madhya Pradesh
(b) State of Maharashtra
(c) State of Goa
(d) State of Telangana

Q85. Famous classical dancer Tanjore Balasaraswati was awarded the _____ in 1977.

(a) Padma Vibhushan
(b) Padma Bhushan
(c) Padma Shri
(d) Bharat Ratna

Q86. How many seats of Rajya Sabha are present in the state of Maharashtra?

(a) 19
(b) 10
(c) 31
(d) 25

Q87. Solanum lycopersicum L. is the scientific name of which of the following highly consumed vegetables?

(a) Potato
(b) Tomato
(c) Onion
(d) Garlic

Q88. 'Third man' is related to which of the following sports?

(a) Hockey
(b) Football
(c) Tennis
(d) Cricket

Q89. How is the voltmeter connected across the points between which the potential difference is to be measured?

(a) Along the same magnetic field
(b) In parallel
(c) In concentric circles
(d) Perpendicular to each other

Q90. As of June 2021, India men's football team captain _____ became the second-highest goal-scorer among the active international footballers.

(a) Anirudh Thapa
(b) Sahal Samad
(c) Sunil Chhetri
(d) Sandesh Jhingan

Q91. Who among the following Indian Carnatic musicians received the Padma Vibhushan award in 1991 and established the Academy of Performing Arts and Research in Switzerland?

(a) Kishan Maharaj
(b) Dr. Mangalampalli Balamuralikrishna

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(c) Ghulam Mustafa Khan
(d) Chhannulal Mishra

Q92. Which outside layer of the Earth is less dense, thick, and andesitic to granite composition?
(a) Oceanic crust
(b) Continental crust
(c) Mantle
(d) Outer core

Q93. Identify the solution extracted from a plant belonging to division Thallophyta.
(a) Turmeric solution
(b) Phenolphthalein solution
(c) Litmus solution
(d) Cabbage solution

Q94. Titanium dioxide, which is used as a white pigment in products such as toothpaste, is derived from which mineral?
(a) Fluorite
(b) Ilmenite
(c) Silica
(d) Mica

Q95. Soorya Classical Dance Festival is held in, _____ for 10 days every year.
(a) Rameswaram
(b) Madurai
(c) Thiruvananthapuram
(d) Mysuru

Q96. Kanaka Raju was awarded Padma Shri in 2021 for contribution to which of the following dance forms?
(a) Gussadi
(b) Chhau
(c) Sattriya
(d) Sadhir

Q97. The electromagnetic spectrum describes the full range of light that is generally divided into _____ regions of wavelength and in the order of increasing energy and frequency.
(a) six
(b) eight
(c) seven
(d) Five

Q98. Which artist's musical album is titled 'Land of Gold'?
(a) Mita Nag
(b) Anupama Bhagwat
(c) Anoushka Shankar
(d) Rajna Swaminathan

Q99. Who among the following is the author of the famous classic 'Alice's Adventures in Wonderland'?
(a) Roald Dahl
(b) Ruskin Bond
(c) Lewis Carroll
(d) Ernest Hemingway

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Q100. Sandalwood is found in which type of forests in India?

(a) Tropical thorn forests and scrubs
(b) Tropical deciduous forests
(c) Mangrove forests
(d) Tropical evergreen forests

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (a) Quiet

The correct answer is 'Quiet'.

Key Points

• Clamour is a noun which means a loud and confused noise, especially that of people shouting.
• Example - The questions rose to a clamour.
• The meaning of the given options are as follows -
• Quiet - making little or no noise.
• Example- The car has a quiet, economical engine.
• Complaint - a statement that something is unsatisfactory or unacceptable.
• Example- I intend to make an official complaint.
• Babble - talk rapidly and continuously in a foolish, excited, or incomprehensible way.
• Example- They babbled on about their holiday.
• Danger - the possibility of suffering harm or injury.
• Example- Her life was in danger.
• From the above meanings it is evident that quiet is the correct antonym for the word clamour.

Hence, option 1 is the correct answer.

Q2. Answer: (d) dependable

The correct answer is 'dependable'.

Key Points

• Credible is an adjective which means able to be believed; convincing.
• Example - Few people found his story credible.
• The meaning of the given options are as follows -
• detachable - able to be removed or separated from something. - This shirt has a detachable collar.
• commendable - deserving praise. - Her effort is commendable.
• digestible - (of food) able to be digested. - You need something easily digestible because you have an upset stomach.
• dependable - trustworthy and reliable. - He has always been a dependable source of information.
• From the above meanings it is evident that dependable is the correct synonym for the word credible.

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• Hence, option 4 is the correct answer.

Q3. Answer: (d) quiet

The erroneous part is 'quiet'.

Key Points

• The adverb "quietly" should modify the verb "entered" in this context.

• Quiet is a verb and cannot be used to describe how the thief entered the house.

• Hence, the erroneous part of the sentence is 'quiet' which makes option 4 the correct answer.

• The sentence can be corrected by using the adverb quietly which means in a quiet manner.

Correct sentence - The thief / entered the house, / in the middle of the night, / quietly.

Q4. Answer: (a) will believing him

The erroneous part is 'will believing him.'

Key Points

• The given sentence is in the present tense form.

• will believing him is in the future tense form making it incorrect.

• So, option 1 is the correct answer.

• Since the subject of the sentence is third person singular (He), we need to use the present tense form believes to make the sentence correct.

Correct sentence - He is such an untruthful man, that no one believes him.

Q5. Answer: (d) made her feeble and unhappy

The correct answer is 'made her feeble and unhappy'.

Key Points

• The use of 'past' in the context gives us the idea that the action took place in the past.

• 'make' is in the present indefinite tense. Hence, its tense form is incorrect.

• So, to improve the sentence, we need to replace the word make.

• Of the given options, only 'made' (past tense) should replace the word 'make'.

• The rest of the options are grammatically incorrect.

• Hence, option 4 is the correct replacement for the underlined part.

Correct sentence - The sweet and bitter memories of her past made her weak and sad.

Q6. Answer: (b) To like someone a lot

The correct answer is 'To like someone a lot'.

Key Points

• Have a soft spot for someone is an idiom that means to feel a great deal of affection for someone or like them a lot.

• Example - Tarun had a soft spot for Rita.

• So, to like someone a lot is the most appropriate meaning of the given idiom.

• Hence, option 2 is the correct answer.

Q7. Answer: (c) shrewd, targeted

The correct answer is 'shrewd, targeted'.

Key Points

• First let us look into the meaning of the given word combinations in the options -

• | Option | Word 1 | Meaning | Word 2 | Meaning |

1	**righteous**	**morally right or justifiable.**	**incorporated**	**take in or contain (something) as part of a whole; include.**
2	noble	having or showing fine personal qualities or high moral principles.	decided	make a choice from a number of alternatives.
3	shrewd	having or showing sharp powers of judgement; astute.	targeted	select as an object of attention or attack.

4	corrupt	having or showing a willingness to act dishonestly in return for money or personal gain.	vanished	disappear suddenly and completely.

• Now the first blank of the given passage needs a word that would describe the cunning move taken by the robbers to fool the police.

• So, shrewd is the correct word for the first blank.

• Targeted is also appropriate for the second blank which needs a word to describe the action of the robbers regarding the locations they are robbing.

• Hence, option 3 or shrewd, targeted are the correct words for the given blanks.

Correct sentence - In a shrewd move, the robbers chose their next place of attack over 255 km away from the locations they had earlier targeted in Dewas.

Q8. Answer: (c) Inspect

The correct answer is 'Inspect'.

Key Points

• Reconnoitre is a verb which means to make a military observation of (a region).

• Example - They reconnoitred the beach some weeks before the landing.

• The meaning of the given options are as follows -

• Glance - take a brief or hurried look. - Shiela glanced at the clock.

• Disclaim - refuse to acknowledge; deny. - The school disclaimed any responsibility for his death.

• Inspect - look at (someone or something) closely, typically to assess their condition or to discover any shortcomings. - Customs officers came aboard to inspect our documents.

• Overlook - fail to notice. - He overlooked her many transgressions.

• From the above meanings it is evident that inspect is the correct synonym for the word reconnoitre.

• Hence, option 3 is the correct answer.

Q9. Answer: (a) Revoke

The correct answer is 'Revoke'.

Key Points

• Rescind is a verb which means to cancel, or repeal (a law, order, or agreement).

• Example - Her driving license was rescinded after three warnings.

• The meaning of the given options are as follows -

• Revoke - officially cancel (a decree, decision, or promise). - The men appealed and the sentence was revoked.

• Sign - write one's name on (a letter, card, document, etc.) to identify oneself as the writer or sender. - He signed reluctantly.

• Validate - check or prove the validity or accuracy of. - All analytical methods should be validated in respect of accuracy.

• Accredit - give credit to (someone) for something. - He was accredited with being one of the world's fastest sprinters.

• From the above meanings it is evident that revoke is the correct synonym for the word rescind.

• Hence, option 1 is the correct answer.

Q10. Answer: (d) The police caught the thieves.

The correct answer is 'The police caught the thieves.'

Key Points

• The subject of the Passive Voice is changed into the object of the Active Voice. Also, the object of the Passive Voice is changed into the subject of the Active Voice.

• The removal of the helping verb and the preposition 'by' is necessary while changing the voice of the sentence from Passive to Active.

• The Passive voice in this question is in Past Indefinite. Thus, the Active voice will also be in Past Indefinite.

• In Passive voice, the format is: Object of the Active voice (Subjective case) + was/were + V3 + by + Subject of the Active voice (Objective case).

• Thus, the format of Active voice is: Subject + V2 + Object.

• For example:

• The Champions League was won by Real Madrid. (Passive Voice)

• Real Madrid won the Champions League. (Active Voice)

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• The options except option (4) don't follow the correct grammatical format of the Active Voice.

Therefore, the correct answer is: The police caught the thieves.

Q11. Answer: (a) End something

The correct answer is 'end something'.

Key Points

• Pull the plug is an idiom that means to do something that prevents an activity from continuing, especially by no longer giving money to support it.

• Example - If the viewing figures drop much more, the TV network will probably pull the plug on the whole series.

• So, end something is the most appropriate meaning of the given idiom.

• Hence, option 1 is the correct answer.

Q12. Answer: (c) Suspecious

The erroneous spelling is 'Suspecious'.

Key Points

• The correct spelling for the word is suspicious which means having or showing a cautious distrust of someone or something.

• Example - He was suspicious of her motives.

• The meanings of the other options are as follows -

• Possession - the state of having, owning, or controlling something. - She had taken possession of the house.

• Jealous - feeling or showing an envious resentment of someone or their achievements, possessions, or perceived advantages. - He was always jealous of his brother.

• Luxurious - extremely comfortable or elegant, especially when involving great expense. - These rooms are very luxurious.

• Hence, option 3 is the correct answer.

Q13. Answer: (c) Better behaviour is expected from a senior student.

The correct answer is 'Better behaviour is expected from a senior student.'

Key Points

• The given sentence is in active voice. As per the question we have to change it into passive voice.

• The structure of the given sentence is as follows:

• Subject + infinitive + Object + adjunct (Active voice)

• Subject (objective case) + to be + past participle + Object (subjective case) + adjunct (Passive voice)

• Example:

• The grocer sells fresh vegetables. (Active voice)

• Fresh vegetables are sold by the grocer. (Passive voice)

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

• The object of the given subject is 'behaviour'.

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

• In case of the given sentence, the subject is an unknown entity. Thus it gets removed from the passive sentence.

• expects will be changed to is expected.

• Adjunct is a word or phrase that constitutes an optional element or is considered of secondary importance in a sentence

• In the given sentence, from a senior student is the adjunct.

Correct sentence - Better behaviour is expected from a senior student.

Q14. Answer: (a) ADCB

The correct answer is 'ADCB'.

Key Points

While arranging the parts of the passage, we should find some grammatical or contextual connections between them. Also, the first sentence of a passage is usually independent and introduces a topic. The second one provides more information about it.

• Sentence A is the independent sentence and talks about how a giant once heard some lovely music.

• So, sentence A is the first sentence after rearrangement. It sets the scene for the rest of the passage.

• Sentence D describes the music the giant heard as being very sweet and explains what the giant thought about the music. Hence, D follows A.

• Sentence C which describes how the music came from a bird and why the giant thought differently should come after sentence D, to maintain continuity on the topic.

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• Sentence B is the concluding statement of the passage as it provides further information regarding the next occurrences observed by the giant.

• Thus, the correct order after rearrangement is option 1 i.e. ADCB.

So, the correct paragraph is : A. One morning the Giant was lying awake in bed when he heard some lovely music. D. It sounded so sweet to his ears that he thought it must be the King's musicians passing by. C. It was really only a little linnet singing outside his window, but it was so long since he had heard a bird sing in his garden that it seemed to him to be the most beautiful music in the world. B. Then the Hail stopped dancing over his head, and the North Wind ceased roaring, and a delicious perfume came to him through the open casement. "I believe the Spring has come at last," said the Giant; and he jumped out of bed and looked out.

Q15. Answer: (c) Disagreeing with

The correct answer is 'Disagreeing with'.

Key Points

• At loggerheads is an idiom that means that if two people or groups are at loggerheads, they disagree strongly about something.

• Example - He is at loggerheads with the Prime Minister over public spending.

• So, disagreeing with is the most appropriate meaning of the given idiom.

• Hence, option 3 is the correct answer.

Q16. Answer: (c) disprove

The correct answer is 'disprove'.

Key Points

• Ascertain is a verb which means to find (something) out for certain; make sure of.

• Example - There was an attempt to ascertain the cause of the accident.

• The meaning of the given options are as follows -

• detect - discover or identify the presence or existence of. - Cancer may soon be detected in its earliest stages.

• approve - officially agree to or accept as satisfactory. - He approved the budget.

• disprove - prove that (something) is false. - He has given the Department of Transport two months to disprove the allegation.

• prove - demonstrate the truth or existence of (something) by evidence or argument. - The concept is difficult to prove.

• From the above meanings it is evident that disprove is the correct antonym for the word ascertain.

• Hence, option 3 is the correct answer.

Q17. Answer: (b) Expedition

The solution is in Hindi. Read it online.

Q18. Answer: (a) whole

The correct answer is 'whole'.

Key Points

• Since we need to select the correct homonym from the given options, we can negate the word heal as it is not a homonym for the other words.

• Let us look into the meaning of the given homonyms -

• whole - all of; entire. - He spent the whole day sleeping.

• hole - a hollow place in a solid body or surface. - The dog had dug a hole to hide the bone.

• haul - (of a person) pull or drag with effort or force. - We need to haul the boat out of the water.

• The given blank needs a word that would describe how the subject (she) was unable to finish a full pizza by herself.

• From the above meanings it is clear that whole is the correct homonym for the given blank.

• Hence, option 1 is the correct answer.

Correct sentence - She couldn't eat the whole pizza by herself.

Q19. Answer: (b) I was watching

The correct answer is 'I was watching'.

Key Points

• There is an error in the tense used in the underlined part I am watching.

• The sentence is in the past tense (came into the room).

• I am watching is the present continuous tense form of the verb watch.

• So, we need to replace the underlined part with the past tense form of 'am' which is I was watching.

• Hence, option 2 is the correct answer.

Correct sentence - I was watching a movie, when my mother came into the room.

Q20. Answer: (b) posted over the wall

The erroneous part is 'posted over the wall'.

Key Points

• In the segment posted over the wall there is an error in preposition usage.

• Over is a preposition used to talk about movement or position at a higher level than something else: A beautiful white bird flew over the lake.

• Hence, option 2 is the correct answer as it contains the erroneous segment.

• The sentence can be made correct by using the preposition on which is used to show that something is in a position above something else and touching it - The book is on the table.

Correct sentence - The notice / that the office / posted on the wall / is very appropriate.

Q21. Answer: (b) between

The correct answer is 'between'.

Key Points

• The given blank needs a preposition to show the who are the people involved in the contract.

• Let us look into the usage of the given options as prepositions -

• as - We use as with a noun to refer to the role or purpose of a person or thing: I worked as a waiter when I was a student.

• between - We use between when referring to one-to-one relationships. An agreement was made between the trade union and the company.

• before - We use before to mean earlier than the time or event mentioned: Can you call me back before 5 pm, please?

• beside - We use beside to mean "close to" or "next to." - The shop is beside the temple.

• From the above it is clear that between is the most appropriate option to fill in blank number 1.

• Hence, option 2 is the correct answer.

Complete passage - The contract (1) between the author and the reader is a game. And the game is one of the greatest inventions (2) of Western civilisation: the game of telling stories, inventing characters and creating the (3) imaginary paradise of the individual, from whence no one can be expelled (4) because, in a novel, no one owns the truth and everyone has the right to be (5) heard and understood.

Q22. Answer: (b) of

The correct answer is 'of'.

Key Points

• The given blank needs a preposition to show the link between inventions and Western civilisation.

• Let us look into the usage of the given options as prepositions -

• in - We use it to indicate location or position within or inside something: We went for a swim in the lake.

• of - Of commonly introduces prepositional phrases which are complements of nouns, creating the pattern: noun + of + noun. This pattern is very common, especially to indicate different parts, pieces, amounts and groups: Lima is the capital of Peru.

• since - We use since as a preposition with a date, a time or a noun phrase: It was the band's first live performance since May 1990.

• about - The most common meaning of about as a preposition is 'on the subject of' or 'connected with': Do you know anything about cricket?

• From the above it is clear that of is the most appropriate option to fill in blank number 2.

• Hence, option 2 is the correct answer.

Complete passage - The contract (1) between the author and the reader is a game. And the game is one of the greatest inventions (2) of Western civilisation: the game of telling stories, inventing characters and creating the (3) imaginary paradise of the individual, from whence no one can be expelled (4) because, in a novel, no one owns the truth and everyone has the right to be (5) heard and understood.

Q23. Answer: (b) imaginary

The correct answer is 'imaginary'.

Key Points

• The given blank needs an adjective to describe the noun paradise as created by an author in their book.

• Let us look into the meaning of the given options -

• plausible - (of an argument or statement) seeming reasonable or probable.

• imaginary - existing only in the imagination.

• drastic - likely to have a strong or far-reaching effect; radical and extreme.

• transparent - (of a material or article) allowing light to pass through so that objects behind can be distinctly seen.

• From the above it is clear that imaginary is the most appropriate option to fill in blank number 3.

• Hence, option 2 is the correct answer.

Complete passage - The contract (1) between the author and the reader is a game. And the game is one of the greatest inventions (2) of Western civilisation: the game of telling stories, inventing characters and creating the (3) imaginary paradise of the individual, from whence no one can be expelled (4) because, in a novel, no one owns the truth and everyone has the right to be (5) heard and understood.

Q24. Answer: (d) because

The correct answer is 'because'.

Key Points

• The given blank needs a conjunction to show the reason why no one can be expelled.

• Off the given options only because is a conjunction while the other words can be used as preposition or adverb.

• When we use because, we are focusing on the reason: She spoke quietly because she didn't want Ratna to hear.

• From the above it is clear that because is the most appropriate option to fill in blank number 4.

• Hence, option 4 is the correct answer.

Complete passage - The contract (1) between the author and the reader is a game. And the game is one of the greatest inventions (2) of Western civilisation: the game of telling stories, inventing characters and creating the (3) imaginary paradise of the individual, from whence no one can be expelled (4) because, in a novel, no one owns the truth and everyone has the right to be (5) heard and understood.

Q25. Answer: (c) heard

The correct answer is 'heard'.

Key Points

• Let us look into the usage of the given options -

• prejudiced - having or showing a dislike or distrust that is derived from prejudice; bigoted.

• neglected - suffering a lack of proper care.

• heard - perceive with the ear the sound made by (someone or something).

• removed - take (something) away or off from the position occupied.

• From the above it is clear that heard is the most appropriate option to fill in blank number 5.

• Hence, option 3 is the correct answer.

Complete passage - The contract (1) between the author and the reader is a game. And the game is one of the greatest inventions (2) of Western civilisation: the game of telling stories, inventing characters and creating the (3) imaginary paradise of the individual, from whence no one can be expelled (4) because, in a novel, no one owns the truth and everyone has the right to be (5) heard and understood.

Q26. Answer: (b) MHWDS

Table of alphabet positional value:

‘PULSE’ is written as ‘QTMRF

HEART’ is written as ‘IDBQU

In the same way,

‘LIVER is written as MHWDS

Hence, "MHWDS" is the correct answer.

Q27. Answer: (c) Monday

Given : 13 September 2003 is a Saturday

• Total number of days in a normal year = 365

• Total number of days in a leap year = 366

• Total number of odd days in a normal year = 365/7 = 1

• Total number of odd days in a leap year = 366/7 = 2

• 13 September 2003 (Saturday) + 2 odd days = 13 September 2004 (Monday)

• Total number of days from 13 September 2004 to 14 February 2005 = 17 (September) + 31 (October) + 30 (November) + 31 (December) + 31 (January) + 14 (February) = 154

• Total number of odd days from 13 September 2004 to 14 February 2005 = 154/7 = 0

• Starting from 13 September 2004, every 7^(th)day will be Monday.

• Since there is no odd day between 13 September 2004 and 14 February 2005, so 14 February 2005 will be held on Monday.

Hence, 'option 3' is the correct answer.

Q28. Answer: (d) QYEC

Exaplanation :

Table of english alphabet positional value:

'GRAPES' is written as 'EPYNCQ'

And,

‘ROSE’ is written as ‘PMQC’

Similarly,

'SAGE' is written as QYEC.

Hence, "QYEC" is the correct answer.

Q29. Answer: (c) 43

The logic followed here is

Logic: First number × 2 - 1 = Second number

1) 9 : 17 = 9 × 2 = 18 - 1 = 17

And,

2) 30 : 59 = 30 × 2 = 60 - 1 = 59

Similarly,

3) 22 : 43 = 22 × 2 = 44 - 1 = 43

Hence, 43 is the correct answer.

Q30. Answer: (a) 82

Explanation :

Hence, 82 is the correct answer.

Q31. Answer: (d) 82

Explanation :

The logic followed here is : Difference of Difference

Hence, 82 is the correct answer.

Q32. Answer: (c) 3

Here, we are given two dices and both have a common face i.e. 4.

So, we will rotate the 2nd dice such a way that the face 4 will come in the same place as in 1st dice, as shown below:

Thus, we can see that, face 3 is opposite to face 4 as all the other faces numbers are shown except number 3.

Hence, there will be 3 dots on the face opposite to the one with four dots.

Q33. Answer: (b) 3153

Here, we are given a pattern and using that pattern we need to find the answer.

The logic is as follows:

12 × 3 + 1 = 37,

37 × 3 + 3 = 114,

114 × 3 + 5 = 347,

347 × 3 + 7 = 1048,

Thus, the pattern is each term is multiply by 3 starting from 2 term and then added by odd number starting from 1, to get the final answer as below:

1048 × 3 + 9 = 3153

Hence, the missing number is "3153".

Q34. Answer: (a) ISHLENG

Here, we need to find the pattern to get the missing word.

The pattern here is: The first three letters are written at the last, then the 4th letter remains in the same place and the last 3 letters

are written first.

So, we have:

and

Thus, going with the pattern for the word ENGLISH, we will get the answer as: ISHLENG

Hence, the word 'ISHLENG' is related to the fifth term.

Q35. Answer: (d) 68

BODMAS rule:

We are given with the equation as:

15 L (3 J 9) K (12 J 2) L (189 I 9) L 29

Let us decode the given sign:

Alphabet	Sign
I	÷
J	×
K	•
L	•

=> 15 + (3 × 9) - (12 × 2) + (189 ÷ 9) + 29

Using BODMAS rule, we will get,

=> 15 + (27) - (24) + (21) + 29

=> 15 + 27 - 24 + 21 + 29

=> 92 - 24

=> 68

Hence, the answer to the given equation is "68".

Q36. Answer: (a) 13

Here, we have a figure and we need to find the triangles in all.

Given:

First we will take only one part (red colour) of the given figure as shown below:

Next, we will count the total number of triangles are: PSU, PSR, RSU, QST, QSO, OST. i.e. a total of 6 triangles. Similarly for the next triangle too (i.e. green colour).

And one small triangle (i.e. yellow colour) is there in the rectangle.

Thus, a total number of triangles = 6 + 6 + 1 = 13 triangles,

Hence, there are 13 triangles.

Q37. Answer: (d) [figure]

The figure is given below:

The shaded portion is the embedded figure.

Hence, 'option 4' is the correct answer.

Q38. Answer: (c) M X B E R

Here, we need to find the pattern to fill the missing letters.

As, we can see that after every 4 letters, the next letter is decrease by one to get the answer.

Given : D _ R X E C M R _ E _ M R X _ A M _ X E

First we will check all the options:

1) B X M E R: D B R X E - C M R X E - M M R X E - A M R X E

2) E B X M R: D E R X E - C M R B E - X M R X M - A M R X E

3) M X B E R: D M R X E - C M R X E - B M R X E - A M R X E

4) X M B E R: D X R X E - C M R M E - B M R X E - A M R X E

In option 3, "M X B E R" is repeating itself.

Hence, the missing blanks are 'M X B E R'.

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Q39. Answer: (a) 1223

The logic here is:

Hence, the missing number is 1223.

Q40. Answer: (a) Fawn

The pattern followed here is:

As we can see that,

1) Bear : Cub → Baby of Bear is called Cub.

And,

2) Owl : Owlet → Baby of Owl is called Owlet.

Similarly,

3) Deer : ? → Baby of Deer is called Fawn.

Hence, the correct answer is Fawn.

Q41. Answer: (d) 131

The logic follows here is:

Logic: First number + (First number - 1)^3

1) 4 : 31 → 4 : (4 + (4 - 1)^3) = 4 : (4 + 27) = 4 : 31

And,

2) 7 : 223 → 7 : (7 + (7 - 1)3) = 7 : (7 + 216) = 7 : 223

Similarly,

3) 6 : ? → 6 : (6 + (6 - 1)3) = 6 : (6 + 125) = 6 : 131

Hence, the missing number is 131.

Q42. Answer: (d) [figure]

Here, we have paper which is folded two times and then cut the paper to make shapes on it.

When we will open the first fold we will get the image as shown below:

Hence, the correct answer is option 4.

Q43. Answer: (d) ÷,–,+, ×, =

Here, we have a equation and we need to find which of the following options will give the correct answer.

BODMAS Rule is:

Given : 16 * 4 * 8 * 10 * 2 * 16

So, we will substitute all the options one by one as shown below:

1) ×, ÷,–,+, =

=> 16 * 4 * 8 * 10 * 2 * 16

Substituting 1st option, we will get,

=> 16 × 4 ÷ 8 - 10 + 2 = 16

Using the BODMAS rule, we will get,

=> 16 × 0.5 - 10 + 2 = 16

=> 8 - 10 + 2 = 16

=> 0 = 16, which is not possible. So, option 1 is not true.

2) –,÷,+,×, =

=> 16 * 4 * 8 * 10 * 2 * 16

Substituting 2nd option, we will get,

=> 16 - 4 ÷ 8 + 10 × 2 = 16

Using the BODMAS rule, we will get,

=> 16 - 0.5 + 10 × 2 = 16

=> 16 - 0.5 + 20 = 16

=> 35.5 = 16, which is not possible. So, option 2 is not true.

3) ÷,+,×,–, =

=> 16 * 4 * 8 * 10 * 2 * 16

Substituting 3rd option, we will get,

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=> 16 ÷ 4 + 8 × 10 - 2 = 16

Using the BODMAS rule, we will get,

=> 4 + 80 - 2 = 16

=> 82 = 16, which is not possible. So, option 3 is not true.

4) ÷,–,+, ×, =

=> 16 * 4 * 8 * 10 * 2 * 16

Substituting 4th option, we will get,

=> 16 ÷ 4 - 8 + 10 × 2 = 16

Using the BODMAS rule, we will get,

=> 4 - 8 + 20 = 16

=> 16 = 16, which is not possible. So, option 4 is true.

Hence, the correct sign is '÷,–,+, ×, =' to get the correct equation

Q44. Answer: (a) JXMZ

Here, the alphabetic order and its position is as shown below:

The logic follows here is as below:

Hence, the answer of the missing word is 'JXMZ'.

Q45. Answer: (b) 645

The logic here is:

Hence, the number 645 is the missing number.

Q46. Answer: (d) [figure]

The figure is given below:

The shaded portion is the embedded figure.

Hence, 'option 4' is the correct answer.

Q47. Answer: (d) [figure]

When the mirror is placed vertically to the objects/alphabets, the image formed will be laterally inverted. In other words, the Left Hand Side and Right Hand Side will interchange their positions while top and bottom will remain same.

Therefore, only option (4) follows this.

Hence, the correct answer is option(4)

Q48. Answer: (d) ÷,+,×,=,×,−

The correct answer is option(4)

By using BODMAS (brackets of division, multiplication, addition and subtraction) and going by the options

Given equation : 48 * 6 * 17 * 3 * 12 * 5 * 1

Option (1)

48 × 6 - 17 = 3 + 12 × 5 + 1

288 - 17 = 3 + 60 + 1

271 = 64

LHS ≠ RHS

Option (2)

48 ÷ 6 + 17 - 3 = 12 + 5 × 1

8 + 6 + 17 - 3 = 12 + 5

28 = 17

LHS ≠ RHS

Option (3)

48 + 6 = 17 - 3 × 12 + 5 ÷ 1

54 = 17 - 36 + 5

54 = 14

LHS ≠ RHS

Option (4)

48 ÷ 6 + 17 × 3 = 12 × 5 - 1

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8 + 51 = 60 -1

59 = 59

LHS = RHS

Hence, the correct answer is option (4)

Q49. Answer: (a) 5,1,2,4,3

Milky way galaxy has Solar system

Solar system has Earth.

Earth has Asia

Asia has India.

So the correct answer is 5.Milky way 1.Solar System 2.Earth 4.Asia 3.India

Hence, the correct answer is option (1)

Q50. Answer: (a) Only conclusion I follows

The correct option is option (1)

These question can be solve by venn diagram.

Conclusions:

I. Some cyclones are rains. → Follows → (As, Some rains are cyclones So, Some cyclones are rains is definite true)

II. No thunder is a cyclone. → Does not follow → (As there is no direct relation between thunder and cyclone, we can not find any definite relationship between them. So, No thunder is a cyclone is possible but not definite true.)

III. No draught is a rain. → Does not follow → (As there is no direct relation between draught and rain, we can not find any definite relationship between them. So, No draught is a rain. is possible but not definitely true.)

Hence, the correct answer is option (1)

Q51. Answer: (a) 22.5 days

Given:

A can do a piece of work in 15 days, but with the help of B, he can do it in 9 days.

Formula used:

If A take x days to complete work alone and B takes y days to complete the same work alone and A and B together take z days to complete the same work, then 1/z=1/x+1/y

Calculation:

Let B alone can do the work in x days.

Then, 1/9=1/15+1/x

Solving for x,

1/x=1/9-1/15=(15-9)/15×9=6/135=2/45

Therefore, x = 45/2 = 22.5

Therefore B alone can do the same work in 22.5 days.

Alternate MethodCalculation:

Efficiency	Person	Days	Total work
3	A	15	45
5	A + B	9	

Now,

B efficieny = (5 - 3) = 2 units

So, B can alone complete the work = 45/2 = 22.5 days

Therefore The correct answer is 22.5 days.

Q52. Answer: (a) Rs. 10 lakhs

Given:

Income in the year 2015 = 60 lakhs

Expenditure in the year 2015 = 30 lakhs

Income in the year 2017 = 80 lakhs

Expenditure in the year 2017 = 60 lakhs

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Formula used:

Profit = Income - Expenditure

Calculations:

Profit in 2015 = 60 - 30 = 30 lakhs

Profit in 2017 = 80 - 60 = 20 lakhs

The difference in the profit = 30 - 20 = 10 lakhs

The difference in profit between 2015 to 2017 is 10 lakhs

Q53. Answer: (a) √(10+2√5)over4

Given:

sin18º = √5-1over4

Formula used:

sin²x+cos²x=1

Calculation:

Using sin²x+cos²x=1

cosx=√1-sin²x.

Substituting 18º for x and √5-1over4 for sin 18º in the above equation,

cos18^0 =√1-sin²18^0=√1-((√5-1)/4)²=√1-(5+1-2√5)/16=√(16-6+2√5)/16=(√10+2√5)/4

Therefore The value of cos18º is (√10+2√5)/4

Alternate Methodsin θ = Perpendicular/Hypoteneous = p/h

cos θ = Base/Hypoteneous = b/h

sin18º = √5-1over4

Here, p = √5 - 1, h = 4

Now, By Pythagoras's theorem

h² = p² + b²

=> 4² = (√5 - 1)² + b²

=> b = √(10+2√5)

Cos 18° = √(10+2√5)over4

Q54. Answer: (b) 20%

Given

Isha gets 6 bangles free of cost on buying 24 bangles.

Formula used:

Discount percentage = (No. of free items)/(total no. of items) × 100

Calculation:

Divide 6 by 30 and multiply by 100.

(6/30) × 100 = 20%

Therefore, Isha got a discount of 20%.

Q55. Answer: (b) R

GIVEN:

4 students' marks in different subjects.

FORMULA USED:

Aggregate marks = Total marks obtained in all subjects/ No. of subjects.

CALCULATION:

Sum of marks obtained by P in 4 different subjects = (65 + 75 + 72 + 58) = 270

Sum of marks obtained by Q in 4 different subjects = (73 + 67 + 78 + 52) = 270

Sum of marks obtained by R in 4 different subjects = (71 + 59 + 55 + 65) = 250

Sum of marks obtained by S in 4 different subjects = (57 + 73 + 58 + 71) = 259.

Aggregate marks obtained by P = 270/ 4 = 67.5

Aggregate marks obtained by Q = 270/4= 67.5

Aggregate marks obtained by R = 250/ 4 = 62.5

Aggregate marks obtained by S = 259/4 = 64.75.

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Hence, R obtained the lowest aggregate marks among all the 4 students, i.e. 62.5.

Q56. Answer: (b) 6

Given

Cost of type 1 rice per kg = Rs 40

Cost of type 2 rice per kg= Rs 47.5

The combined cost of 15 kg of rice = 645

Calculation

Cost of combined rice per kg = total cost /quantity

=> 645/15 = Rs 43

Let the quantity of type 1 rice be A and type 2 rice be B

A + B = 15 kg ----(equation 1)

Total cost of rice = (A × 40) + (B × 47.5) = 645 ----(equation 2)

Equating these two, we get

A = 9 kg, B = 6 kg

The quantity of the rice that cost Rs. 47.50 per kg is 6 kg

Shortcut Trick

Quantity of cheaper = A

Quantity of dearer = B

A/B=(47.5-43)/(43-40)=1.5 (Equation 3)

Using equations 1 and 3 we get

A + B = 15 kg ----(equation 1)

=> 1.5 B + B = 15

=> 2.5 B = 15

=> B = 6

From equation 1

A = 9kg

Therefore The quantity of the rice that cost Rs. 47.50 per kg is 6 kg

Q57. Answer: (d) 1992

Given:

Average of 10 students = A

Average of 15 students = A + 8

The total marks obtained by the group of 10 students is X and the total marks obtained by the group of 15 students is Y with X : Y = 3 : 5

Formula used:

Sum of observations = average × no. of observations

Calculation:

Here, X = 10A ...(1)

and Y = 15 (A + 8) ...(2)

Dividing (1) by (2),

=> X/Y=10A/(15(A+8))=3/5

Solving for A,

=> 10A = 9A + 72

=> A = 72

Adding (1) and (2) with A = 72,

X + Y = 10 × 72 + 15 × (72 + 8) = 720 + 1200 = 1920

Therefore A + X + Y = 72 + 1920 = 1992

Q58. Answer: (c) 600 km

Given:

Two trains leave Agra for Calcutta at 9:00 a.m. and 9:30 a.m., respectively, and travel at 240 km/h and 300 km/h, respectively.

Formula used:

Distance = speed × time

Calculation:

The relative speed of the faster train as seen by the slower train is 300 - 240 = 60 km/h.

The separation between the two trains when the second leaves at 9.30 am is 240 × 0.5 = 120 km.

Time taken for the faster train to cover a distance of 120 km with respect to the slower train is 120/60 = 2 hr.

The total distance travelled by the faster train from Agra, to meet the first train, is 300 × 2 = 600 km.

Therefore The two trains will meet at a distance of 600 km from Agra.

Q59. Answer: (b) 40

Given:

4(z + 7)(2z – 1) = Az2 + Bz + C

Calculation:

Simplifying the left-hand side of the given equation,

$4(z + 7)(2z – 1) = 8z^2 + 52z - 28$

On comparing this expression with the right-hand side of the given equation,

A = 8, B = 52 and C = -28

Therefore The value of $A2 – B – C = (8)^2 - 52 - (-28) = 64 - 52 + 28 = 40$

Q60. Answer: (c) 1408 cm^2

Given:

A container in cylindrical shape whose diameter is 14 cm and height is 25 cm.

Formula used:

Radius of the cylinder, r = diameter/2

Total surface area of the cylinder = $2\pi r(h+r)$

Calculation:

Radius of the cylinder = 14/2=7cm

Total surface area of the cylinder = $2\times 22/7\times 7\times(25+7)=1408cm^2$

Therefore The total surface area of a container in cylindrical shape whose diameter is 14 cm and height is 25 cm is 1408 cm2

Q61. Answer: (d) Rs. 4.08

Given:

Principle amount of Rs. 10000 compounded for 1 1over2 years at 4% per annum, yearly and half-yearly.

Formula used:

Present value = $P(1+ r/100)^n$, where P is the principle amount, r is the annual interest rate and n is time in years.

Calculation:

When compounded yearly:

The value after first year = $10000(1 + 0.04)^1 = 10400$

The value after 1.5 years = 10400(1 + 0.5 × 0.04) = 10608

When compounded half-yearly, n = 1.5 × 2 = 3, r = 0.5 × 4 = 2%.

The value after 1.5 years = $10000(1 + 2/100)^3 = 10612.08$

Therefore The difference between the compound interest on Rs. 10,000 for 1 1over2 years at 4% per annum compounded yearly and half-yearly is 10612.08 - 10608 = Rs. 4.08

Q62. Answer: (b) Cavin

Given:

A table showing the marks scored out of 100 by Amit, Bablu, Cavin and Darshan in 5 subjects is given.

Formula used:

Average = (sum of all observations)/(no. of observations)

Calculation:

Average of Amit = (98+95+96+89+96)/5=94.8%

Average of Bablu = (89+95+97+86+95)/5=92.4%

Average of Cavin = (96+99+94+87+94)/5=94%

Average of Darshan = (88+94+96+88+98)/5=92.8%

Therefore Cavin secured an average score of exactly 94%.

Q63. Answer: (c) Rs. 87 extra

Given:

A Rs. 3,000 worth of products can be sold either by giving three successive discounts of 10% each, or by giving a single discount of 30%.

Formula used:

Final price = (100-discount)/100× marked price

Calculation:

Final price with three successive discounts of 10% each = 0.9 × 0.9 × 0.9 × 3000 = Rs. 2187

Final price with single discount of 30% = 0.7 × 3000 = Rs. 2100

Therefore If a buyer chooses the former option, he will pay Rs 87 extra as compared to the second option.

Q64. Answer: (b) 30000

Given:

At an election there were two candidates. A candidate got 38% of votes and lost by 7200 votes.

Formula used:

Value of a part = percentage/100×value of whole

Concept used:

Total votes = Number of votes winning candidate got + Number of votes loosing candidate got

Calculation:

Let the total number of valid votes be x.

Then, A got '0.38x' number of votes and B get '0.62x' number of votes.

Since A lost by 7200 votes,

0.62x - 0.38x = 7200

=> x=7200/0.24=30000

Therefore The total number of valid votes is 30000.

Q65. Answer: (b) 8

Given:

x5 - 10x4 + 10x3 - 10x2 + 10x -1

Calculation:

Substituting x = 9 in x5 - 10x4 + 10x3 - 10x2 + 10x - 1,

9^5- 10(9)4 + 10(9)3 - 10(9)2 + 10(9) -1 = 8

Therefore If x = 9, then the value of x5 - 10x4 + 10x3 - 10x2 + 10x -1 is 8.

Alternate Method

Given:

x5 - 10x4 + 10x3 - 10x2 + 10x -1

Calculation:

Substituting x = 9 in x5 - 10x4 + 10x3 - 10x2 + 10x - 1,

95- 10(9)4 + 10(9)3 - 10(9)2 + 10(9) -1

Write 10 as (9 +1).

Then, 95- (9+1)(9)4 + (9 +1)(9)3 - (9+1)(9)2 + (9+1)(9) -1

=> 95- 95 - 94 + 94 + 93 - 93 - 92 + 92 +9 -1 = 8

Therefore If x = 9, then the value of x5 - 10x4 + 10x3 - 10x2 + 10x -1 is 8.

Q66. Answer: (c) 94.5

Given:

Two numbers are given, 42 and 63.

Formula used:

If a, b, c are in proportion then, a/b=b/c

Calculation:

Let the third proportional of of 42 and 63 be x.

Then, 42/63=63/x

Solving for x,

x=63×63/42=94.5

Therefore The third proportional of 42 and 63 is 94.5

Q67. Answer: (d) 19.2 km/h

Given:

A man travelled by car from city A to city B at a speed of 24 km/h and returned from city B to city A at 16 km/h.

Formula used:

Time taken = Distance/Speed

Average speed = Total distance travel/Total time taken

Calculation:

Let the distance between the cities A and B be 'd'.

Then, time taken for the car to move from city A to city B at a speed of 24 km/h is d/24 hours.

And, time taken for the car to move from city B to city A at a speed of 16 km/h is d/16 hours.

Average speed = 2d/(d/24+d/16) = (2× 24×16)/40=19.2 km/h.

Therefore The average speed of the man for the whole journey is 19.2 km/h

Alternate MethodCalculation:

Average speed = (2 × S1 × S2)/ S1 + S2

=> (2 × 24 × 16)/ 40

=> (16 × 12)/ 10 = 19.2 km/h

Therefore The correct answer is 19.2 km/h.

Q68. Answer: (c) 2 : 5 : 3

Given:

A solid toy is in the shape which is a combination of a cylinder, cone and a hemispherical bowl. The cylinder contributes to 50% of the total volume of the toy and the cone contributes to 20% of the volume.

Formula used:

Ratio of a, b, c is a : b : c.

Calculation:

If the cylinder contributes to 50% and the cone contributes to 20% of the total volume, then the hemispherical bowl contributes to 30% of the total volume.

The ratio of the three volumes (cone, cylinder, hemisphere) is 20 : 50 : 30 = 2 : 5 : 3.

Therefore The ratio of the contribution (in terms of volume) of the cone, cylinder and hemispherical bowl is 2 : 5 : 3

Q69. Answer: (c) 230

Given:

{(28 - 33) + 99} + 136 ÷ 4 × 5 - (44 - 22)

Formula used:

Calculation:

Therefore,

{(28 - 33) + 99} + 136 ÷ 4 × 5 - (44 - 22)

= {(28 - 27) + 99} + 136 ÷ 4 × 5 - (44 - 4)

= 100 + 136 ÷ 4 × 5 - 40 = 100 + 34 × 5 - 40

= 100 + 170 - 40 = 270 - 40 = 230

Hence, {(28 - 33) + 99} + 136 ÷ 4 × 5 - (44 - 22) = 230.

Q70. Answer: (a) 38.50 cm²

Given:

Sector of a circle of radius 7 cm with a central angle of 90°.

Formula used:

Area of a sector of a circle = θ/360π r², where θ is the central angle and r is the radius.

Calculation:

Substitute 90 for θ and 7 for r in the formula θ/360π r².

90/360 × 22/7 × 7² = 38.5 cm²

Therefore, the area of the given sector is 38.56 cm².

Q71. Answer: (a) 50%

Given:

A company gives a discount of 20% on the marked price of an article and gains 20% on that particular article.

Formula used:

Discount = (marked price - selling price)/(marked price) × 100

Calculation:

Let the marked price of the article be Rs. 100.

Then, a discount of 20% will be Rs 20.

This means that the article was sold for Rs. 80.

Let the cost price be x.

Then, 120/100 × x = 80

Hence, the cost price is x = 100/120 × 80 = 200/3

And, frac100 - 200/3200/3 × 100 = 50

Therefore, the company marks its article above the cost price by 50%.

Shortcut TrickCalculation:

=> C.P/M.P = (100 - 20%)/(100 + 20 %)

=> C.P/M.P = (80%)/(120%)

CP : MP = 2 : 3

Markup % = (1/2) × 100 = 50 %

Therefore The correct answer is 50 %.

Q72. Answer: (d) 12.1 m²

Given:

The length, breadth and height of a cuboid are 90cm, 50cm and 4m, respectively.

Formula used:

Total surface area of a cuboid = 2 × {length × breadth + length × height + breadth × height}

Calculation:

The total surface area of the given cuboid is 2 × {0.9 × 0.5 + 0.9 × 4 + 0.5 × 4} = 2 × {0.45 + 3.6 + 2} = 2 × 6.05 = 12.1 m²

Therefore, the total surface area of the given cuboid is 12.1 m2

Q73. Answer: (d) 20

Given:

Natural numbers divisible by 5 from the integers -10 to 35.

Formulas used:

Sum of an AP is S = n/2 × (a+l), where n is the number of terms, a is the first and l is the last term.

Average = Sum of all terms/Total number of terms

Calculation:

The natural numbers divisible by 5 from the integers -10 to 35 is an arithmetic progression 5, 10, 15, 20, 25,30, 35 with a common difference of 5.

The sum of these natural numbers is S = 7/2 × (5+35) = 7/2 × 40 = 140

Therefore, the average of the given natural numbers is 140/7 = 20.

Mistake Points

The question says, The average of the natural numbers divisible by 5 from the integers -10 to 35

Since, -10 and -5 are not the natural numbers, so we can not consider them.

Please read the question carefully and solve it accordingly.

Q74. Answer: (d) 40

Given:

2x + y = 8 and xy = 6

Formula used:

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

Calculation:

The expression 4x2 + y2 can be written as $4x^2+ y^2= (2x + y)^2 - 4xy$

Substitute (2x + y) = 8 and xy = 6, in the above equation.

$4x^2 + y^2= 8^2- 4 \times 6 = 64 - 24 = 40$

Therefore, if 2x + y = 8 and xy = 6, then find the value of 4x2 + y2 is 40.

Q75. Answer: (d) 20 √3 cm

Shortcut Trick

The longest stick that can fit inside a cubical vessel is equal to its body diagonal.

Body Diagonal of a cube = a√3, where a is the side length.

Given, a = 20 cm

Body Diagonal = 20 × √3 cm

Therefore The correct answer is 20√3 cm.

Alternate Method

Given:

Edge of the cubical vessel, a = 20 cm

Formula Used:

The length of the longest stick that can be fitted in a 3D box or cuboid is its body diagonal.

Body Diagonal of a Cube = $\sqrt{(a^2 + a^2 + a^2)} = a\sqrt{3}$

Calculations:

=> Length of longest stick = 20 × √3

=> Length of longest stick = 20√3 cm

Therefore The correct answer is 20√3 cm.

Additional Information

Diagonal of a Cuboid

The length of the longest pole that can be placed in a rectangular room of dimensions l × b × h is its space diagonal, given by $\sqrt{(l^2 + b^2 + h^2)}$.

Face Diagonal of a Cube

The longest line that can be drawn on a single flat face of a cube is its face diagonal, calculated as a√2.

Surface Area and Volume

For a cube of side a, the Volume is a^3, the Lateral Surface Area is $4a^2$, and the Total Surface Area is $6a^2$.

Q76. Answer: (d) Hari Prasad Chaurasia

The correct answer is Hari Prasad Chaurasia.

Key Points

• Pandit Hariprasad Chaurasia is a world-renowned exponent of the bansuri or bamboo flute.

• He is one of those rare classical musicians who expanded the peripheries of classical music by taking it to the common masses.

• Pandit Hariprasad Chaurasia is an internationally renowned exponent of the 'bansuri', or the bamboo flute and is the recipient of the Padma Vibhushan and Padma Bhushan awards, which are among the three highest civilian awards in India.

• This musician has donned many hats — of an extraordinary flute artiste, titan of Hindustani classical genre and music director.

Additional Information

• Anjanibai Malpekar (22 April 1883 – 7 August 1974) was a noted Indian classical singer, belonging to the Bhendibazaar gharana of Hindustani classical music.

• Meera Banerjee's performances drew appreciation from senior and contemporary musicians wherever she went.

• Pandit Ajoy Chakrabarty (born 25 December 1952) is an Indian Hindustani classical vocalist, composer, lyricist and an exponent of the Patiala-Kasur gharana.

Q77. Answer: (c) Patiala

The correct answer is Patiala.

Key Points

• Asian Games and Commonwealth Games gold medallist Neeraj Chopra threw an attempt of 88.07m to create a new national record in the javelin throw event at the Indian Grand Prix 3 at the National Institute of Sports (NIS), Patiala.

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• Neeraj Chopra's national record javelin throw matched or surpassed only 3% times since 1986.

• Neeraj Chopra won the men's javelin throw gold medal at the Tokyo 2020 Olympics.

Additional Information

• The javelin throw is a track and field event where the javelin, a spear about 2.5 m (8 ft 2 in) in length, is thrown.

• The javelin thrower gains momentum by running within a predetermined area.

• Javelin throwing is an event of both the men's decathlon and the women's heptathlon.

• In international competition, men throw a javelin between 2.6 and 2.7 m (8 ft 6 in and 8 ft 10 in) in length and 800 g (28 oz) in weight, and women throw a javelin between 2.2 and 2.3 m (7 ft 3 in and 7 ft 7 in) in length and 600 g (21 oz) in weight.

Q78. Answer: (c) Mahatma Gandhi

The correct answer is Mahatma Gandhi.

Key Points

• Mohandas Karamchand Gandhi 2 October 1869 – 30 January 1948), commonly known as Bapu, was an Indian lawyer, anti-colonial nationalist and political ethicist.

• Gandhi employed nonviolent resistance to lead the successful campaign for India's independence from British rule.

• The Story of My Experiments with Truth is the autobiography of Mahatma Gandhi, covering his life from early childhood through to 1921.

Additional Information

• B. R. Ambedkar was popularly known as Babasaheb Ambedkar and everyone knows that he was one of the architects of the Indian Constitution.

• Waiting for a Visa is a 20-page autobiographical life story of B. R. Ambedkar written in the period of 1935–36.

• An Autobiography, also known as Toward Freedom (1936), is an autobiographical book written by Jawaharlal Nehru while he was in prison between June 1934 and February 1935, and before he became the first Prime Minister of India.

• Bhagat Singh', he is considered a national hero of India's freedom struggle against colonial rule.

Q79. Answer: (c) Sarod

The correct answer is Sarod.

Key Points

• Rajeev Taranath (born 17 October 1932) is an Indian classical musician who plays the sarod. Taranath is a disciple of Ali Akbar Khan.

• He gave his first public vocal performance when he was nine years old.

• Rajeev was singing for the All India Radio before he was twenty.

• He is respected for his in-depth understanding as he unfolds the raga, the tonal quality and power of his strokes.

Additional Information

• Distinguished players of the tabla include Alla Rakha Khan and his son Zakir Hussain.

• Hariprasad Chaurasia (born 1 July 1938) is an Indian music director and classical flautist, who plays the flute, in the Hindustani classical tradition.

• Pandit Shivkumar Sharma (13 January 1938 – 10 May 2022) was an Indian classical musician and santoor player who is credited with adapting the santoor for Indian classical music.

Q80. Answer: (d) Odissi

The correct answer is Odissi.

Key Points

• Shrimati Kumkum Mohanty is an incredibly popular Odissi artist.

• Kumkum Mohanty has been regarded with the Sangeet Natak Foundation Grant in 1994.

• Odissi dance pays extraordinary significance to Ruler Jagannath who is viewed as the divine force of the universe and is venerated by individuals of Orissa.

• Master Pankaj Charan Das was an Indian old style artist, choreographer, and the Ādi Master of Odissi dance.

Additional Information

• Jharkhand perception of Jharkhand moves is chhau, an intricate concealed dance of the southeastern area, especially the Saraikela and East Singhbhum locale.

• Lai Haraoba is the earliest type of dance in Manipur, and it shapes the premise of every single such dance. Lai Haraoba is a celebration actually seen in the state.

• Bharatanatyam is customarily a group execution workmanship that comprises an independent artist, joined by performers and at least one vocalist.

Q81. Answer: (c) Income distribution angle

The correct answer is Income distribution angle.

Key Points

• The measurement of income distribution is calculated by dividing the 'Gross Domestic Product (GDP)' by the nation's population.

• Income distribution patterns are found to be diverse across countries and unrelated in any obvious way to per capita GDP or the rate of GDP growth.

• The Lorenz curve is a graphical representation of the distribution of income or wealth in a society.

• Income distribution is extremely important for development, since it influences the cohesion of society, determines the extent of poverty for any given average per capita income and the poverty-reducing effects of growth, and even affects people's health.

Q82. Answer: (a) Kapil Dev

The correct answer is Kapil Dev.

Key Points

• Straight From Heart is the autobiography of Kapil Dev. The whole book talks about different incidents in Kapil Dev's life.

• Kapil dev is a former Indian cricketer.

• Nickname: The Haryana Hurricane.

• One of the greatest all-rounders in Indian cricket.

• He led the Indian cricket team that won the 1983 cricket world cup.

• The first player to take 200 one-day international wickets.

• He joined the Indian territorial army as a Lieutenant colonel in 2008.

Additional Information

• Sourav Ganguly Autobiography:-

• A Century Is Not Enough - Gautam Bhattachary

• Sachin Tendulkar Autobiography:-

• Playing It My Way- Boria Majumdar

• Yuvraj Singh Autobiography;-

• The Test of My Life from cricket to cancer and back- Yuvraj Singh

Q83. Answer: (d) Los Angeles

The correct answer is Los Angeles.

Key Points

• The Session of the International Olympic Committee (IOC) meeting in Lima, Peru, elected Paris as the host city of the Games of the XXXIII Olympiad 2024 and Los Angeles as the host city of the Games of the XXXIV Olympiad 2028.

• The 2028 Summer Olympic and Paralympic Games will be hosted in Los Angeles, United States.

• The opening ceremony for the 2028 Los Angeles Olympics will take place on July 14, 2028, and continue till July 30.

• Los Angeles was elected as the host city for the 2028 Summer Olympics at the 131st IOC Session in Lima, Peru on September 13, 2017.

• Paris and Los Angeles were officially awarded the Games at the 131st IOC Session in Lima, Peru, on 13 September 2017.

Additional Information

• IOC to host the upcoming Olympic Games:-

• Paris:- 2024 Summer Olympics,

• Milan–Cortina d'Ampezzo:- 2026 Winter Olympics

• Brisbane:- 2032 Summer Olympics.

• Los Angeles:- 2028 Summer Olympics,

Q84. Answer: (b) State of Maharashtra

The correct answer is State of Maharashtra.

Key Points

• The case of Vikas Kishan Rao Gawali v. the State of Maharashtra came before the Supreme Court of India.

• The judgment for this case was given by three justices namely A.M. Khanwilkar, Indu Malhotra, and Ajay Rastogi. The date of the judgment is 04/03/2021.

• Court: Supreme Court of India

• Date of judgment: 04/03/2021

• Judges:-

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• A.M. Khanwilkar

• Indu Malhotra

• Ajay Rastogi

• The Maharashtra Zilla Parishads and Panchayat Samitis Act of 1961 and the Constitution of India play an important role in this case.

Additional Information

• Eknath Shinde becomes sworn in as Maharashtra CM; Devendra Fadnavis is Dy CM.

• The 2019 Maharashtra Legislative meeting election became held on 21 October 2019 to select all 288 members of the nation's Legislative assembly.

• During the first country assembly election in India, in 1952, Dr. Burgula Ramakrishna Rao became elected chief minister of Hyderabad kingdom.

Q85. Answer: (a) Padma Vibhushan

The correct answer is Padma Vibhushan.

Key Points

• Indian arts and culture, Balasaraswati received a Sangeet Natak Akademi (India's national academy of music, dance, and drama) award in 1955 and the Padma Vibhushan, one of the country's top civilian honours, in 1977.

• T. Balasaraswati, in full Thanjavur Balasaraswati, Indian dancer and singer in the Karnatak (South Indian) tradition.

• As a young teenager, she was seen by internationally known Indian dancer and choreographer Uday Shankar.

• who became an ardent promoter of her performances, and throughout the 1930s she captured the imagination of audiences across India.

• Terest in bharata natyam rebounded in the 1950s as the public grew concerned that a unique Indian art form was on the brink of extinction. Balasaraswati, encouraged by an administrator at the Music Academy in Madras, established a dance school in association with the institution.

Additional Information

• Sonal Mansingh, dancer of odissi, a classical Indian dance form that originated in Orissa, and other Indian classical forms.

• Apart from being a dancer, she was also a teacher, researcher, choreographer, and social activist.

• Rukmini Devi features in India Today's list of '100 People Who Shaped India'. She was awarded the Padma Bhushan in 1956, and the Sangeet Natak Akademi Fellowship in 1967.

• Kelucharan Mohapatra was a legendary Indian classical dancer, guru, and exponent of Odissi dance, who is credited with the revival and popularizing of this classical dance form in the 20th century. He is the first person to receive the Padma Vibhushan from Odisha.

• Savitha Sastry is an Indian dancer and choreographer best known as an exponent of Bharatanatyam.

• Mungara Yamini Krishnamurthy is an Indian dancer of Bharatanatyam and Kuchipudi styles of dancing.

Q86. Answer: (a) 19

The correct answer is 19.

Key Points

• The Rajya Sabha (which means the "Council of States") is the top house of the Parliament of India. Maharashtra elects 19 seats and they're indirectly elected by using the kingdom legislators of Maharashtra.

• The Rajya Sabha or Council of States is the upper house of the Parliament of India.

• Membership is limited to 250 participants, and the existing Rajya Sabha has 245 individuals.

• The participants of the 14th Maharashtra assembly of Maharashtra were elected inside the 2019 Maharashtra Legislative assembly election, with outcomes introduced on 21 October 2019.

Additional Information

• The Rajya Sabha is the higher residence of the Parliament of India.

• Gujarat elects eleven seats and they are not directly elected by the kingdom legislators of Gujarat.

• There are eighty parliamentary constituencies and 403 legislative meeting constituencies in Uttar Pradesh.

• The capability seating ability of the Rajya Sabha is 250 (238 elected, 12 appointed), in step with article 80 of the Indian charter.

Q87. Answer: (b) Tomato

The correct answer is Tomato.

Key Points

• Tomato, (Solanum Lycopersicum), a flowering plant of the nightshade family (Solanaceae), is cultivated extensively for its edible fruits.

• Labeled as a vegetable for nutritional purposes, tomatoes are a good source of vitamin C and the phytochemical lycopene.

• Root decoction is ingested for relief from tooth pain. Tomatoes are rich in lycopene, a substance with beneficial effects on the heart and prostate. It is also used for rheumatism and headaches. Tomato fruits are consumed in many various ways and forms, either raw or cooked.

• Tomato, (Solanum Lycopersicum), a flowering plant of the nightshade family (Solanaceae), is cultivated extensively for its edible fruits.

Additional Information

• List of scientific names:-

• Tulsi- Ocimum sanctum

• Cotton- Gossypium herbaceum

• Banyan- Ficus benghalensis

• Neem- Azadhirachta indica

• Peepal- Ficus religiosa Linn.

• Saffron- Crocus sativus

• Sugarcane- Saccharum

• Sunflower- Helianthus annuus

• Tea- Camellia sinensis

• Bamboo- Bamboosa aridinarifolia

• Tobacco- Nicotiana tobacco

Q88. Answer: (d) Cricket

The correct answer is Cricket.

Key Points

• Whilst nobody knows how the term came up, it's far recommended that once the overarm bowler was brought, there has been the want for a “third man” or “1/3 fielder” to supplement the slips and the gully. For this reason, this is how the time period, “third guy” became coined.

• There are umpires to be had on the pitch who normally offers decisions approximately leg before wicket, sixes, fours, etc.

• You may find the third man placed at the back of the wicketkeeper on the off-aspect. The fielder is normally 45 tiers to the wicket across the boundary.

• It covers a big location - whatever that is going thru the slip and gully vicinity.

• Frequently check teams don't have a 3rd guy due to the fact they prefer to attack than protect.

• Jack White has introduced new co-proprietors of his label 0.33 guy information: Ben Swank and Ben Blackwell.

Additional Information

• The first Hockey Association was shaped within the UK in 1876 and drew up the primary formal set of policies.

• Soccer guidelines and regulations:-

• Teams could be told which manner they're kicking at the start of the game.

• Groups can not score without delay from a kickoff.

• There is no offside.

• All loose kicks and corners are direct and the opposition must be three meters away.

• Goal kicks are to be taken everywhere in the penalty area.

• Dominic Thiem brought home the men's singles championship for his most memorable Huge homerun title.

• Brazil won the men's football rivalry at the Tokyo Olympics for their second consecutive gold award while Canada won the ladies' class.

Q89. Answer: (b) In parallel

The correct answer is In parallel.

Key Points

• To measure the potential difference between two points, a voltmeter should be connected in parallel to the points.

• Ohm's law states that the voltage across a conductor is directly proportional to the current flowing through it, provided all physical conditions and temperatures remain constant.

• A voltmeter measures how much voltage is passing between two points. It does this by measuring the difference between the positive input of voltage and the negative input of voltage

• Resistance is a measure of the opposition to current flow in an electrical circuit. Resistance is measured in ohms, symbolized by the Greek letter omega (Ω).

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• A parallel circuit comprises branches so that the current divides and only part of it flows through any branch.

Additional Information

• The fields combine to produce a resultant field which acts in one direction at any given point.

• In a parallel magnetic circuit, reluctance appear to be in parallel. This is similar to a parallel electrical circuit in which resistors are connected in parallel which provides more than one path for the flow of current.

• At every point of a current carrying circular loop, the concentric circles representing the magnetic field around it would become larger and larger as we move away from the wire.

• The force due to the magnetic field is perpendicular to both magnetic field and the current direction and is proportional to both current and magnetic field.

Q90. Answer: (c) Sunil Chhetri

The correct answer is Sunil Chhetri.

Key Points

• Sunil Chhetri becomes joint 5th highest goalscorer in international football history.

• Currently, Ronaldo is the highest goalscorer in international football with 117 goals, while Messi is in the fourth spot with a total of 86 goals.

• Sunil Chhetri becomes joint 5th highest goalscorer 2022.

• Indian football team captain Sunil Chhetri has bettered Argentina's Lionel Messi to become the second-highest active international goal-scorer with 74 goals.

• Chhetri is only behind Portugal’s Cristiano Ronaldo in the all-time goal scorer’s list among active players in international football.

Additional Information

• Sunil Chhetri (born 3 August 1984) is an Indian professional footballer who plays as a forward and captains both Indian Super League club Bengaluru and the India national team.

• India men's team football captain Sunil Chhetri flaunts superb fielding skills at NCA.

• Anirudh Thapa (born 15 January 1998) is an Indian professional footballer.

• Bhutia is considered as the torchbearer of Indian football in the international arena. He is often nicknamed the Sikkimese Sniper because of his shooting skills in football.

• Sahal Abdul Samad (born 1 April 1997) is an Indian professional footballer who plays as a midfielder for Indian Super League club Kerala Blasters. He plays as a wide midfielder and winger.

Q91. Answer: (b) Dr. Mangalampalli Balamuralikrishna

The correct answer is Dr. Mangalampalli Balamuralikrishna.

Key Points

• Mangalampalli Balamuralikrishna was an Indian Carnatic vocalist, musician, multi-instrumentalist, playback singer, composer, and character actor.

• He was awarded the Madras Music Academy's Sangeetha Kalanidhi in 1978.

• Balamuralikrishna started his career at the age of six. In his lifetime, he gave over 25,000 concerts worldwide.

• Balamuralikrishna has experimented with the Carnatic music system by keeping its rich tradition untouched.

• Balamuralikrishna has over 400 compositions to his credit and is one of the very few people to have composed in all the 72 Melakarta Ragas and has created several ragas, with 4 notes and 3 notes and also has invented a new Tala system.

Additional Information

• Pandit Kishan Maharaj

• Pandit Kishan Maharaj was a renowned Tabla player of India who had given some of the most cherished and splendid compositions to the country. He belonged to the Benares Gharana of Hindustani classical music.

• Pandit Kishan Maharaj was born on 3rd September 1923 in Kabir Chaura locality of Benaras in Uttar Pradesh.

• Ustad Ghulam Mustafa Khan

• Ustad Ghulam Mustafa Khan was awarded the Padma Shri in 1991, followed by Padma Bhushan in 2006 and Padma Vibhushan in 2018.

• In 2003, he was honored with the Sangeet Natak Akademi Award, the highest Indian recognition given to practicing artistes.

• Pandit Chhannulal Mishra

• Pandit Chhannulal Mishra has been selected for the conferment of this year’s Padma Vibhushan, one of the highest civilian awards in the country. He is among the seven recipients whose names have been approved by the President for Padma Vibhushan Award 2020.

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Q92. Answer: (b) Continental crust

The correct answer is Continental crust.

Key Points

• This is the outside layer of the earth and is made of solid rock, mostly basalt and granite. Continental crust is less dense, thicker, and mainly composed of granite.

• The average composition is granite, which is much less dense than the mafic rocks of the oceanic crust (Figure below).

• Continental crust is made up of felsic material (SiO4)-- mainly granite.

• The density of continental crust is 2.9 g/cm^3. Oceanic crust, while thinner, is made of mafic materials (Fe, Mg)-- mainly basalt.

Additional Information

• Oceanic crust, extending 5-10 kilometers (3-6 kilometers) beneath the ocean floor, is mostly composed of different types of basalts.

• Continental crust is typically 30-50 km thick, whilst oceanic crust is only 5-10 km thick.

• Oceanic crust is thinner and more dense than continental crust.

• The mantle is the mostly-solid bulk of Earth's interior. The mantle lies between Earth's dense, super-heated core and its thin outer layer, the crust.

• The mantle is made up of 44.8% oxygen, 21.5% silicon, and 22.8% magnesium. There's also iron, aluminum, calcium, sodium, and potassium.

Q93. Answer: (c) Litmus solution

The correct option is Litmus solution.

Key Points

• Thallophytes or Thallophyta are a polyphyletic group of non-mobile organisms having same characteristics but do not share a common ancestor.

• Thallophyta is categorized as a sub-kingdom of kingdom Plantae.

• These includes Lichens,Algae,Bacteria and Bryophytes.

• Unlike other plants, xylem and phloem are absent.

• They are usually found in moist or wet places.

Additional Information

• The division Thallophyta, is classified into two subdivisions:

• Algae

• Fungi

• Algae, are chlorophyll-bearing thalloid. They are autotrophic and largely aquatic plants.

• Fungi, are achlorophyllous (meaning: they do not produce chlorophyll) heterotrophic thallophytes.

Q94. Answer: (b) Ilmenite

The correct answer is Ilmenite

Key Points

• The chemical used for making toothpaste white is Titanium dioxide.

• Titanium dioxide is having a " High refractive Index"

• Ilmenite is a mineral composed of titanium and iron oxide, with the idealized formula FeTiO 3.

• It is a black or steel-gray solid that is weakly magnetic.

• The most important titanium ore and the primary source of titanium dioxide, which is used in paints, printing inks, fabrics, plastics, paper, sunscreen, food, and cosmetics, is ilmenite.

Additional Information

• Fluorite is the mineral form of CaF2 (calcium fluoride). It is one of the halide minerals.

• Crystalline silica is a mineral that is abundant in the earth's crust. Glass, pottery, ceramics, bricks, and artificial stone are also made from it.

• Mica is a group of silicate minerals whose outstanding physical characteristic is that individual mica crystals can easily be split into extremely thin elastic plates of silicate minerals. It is a type of phyllosilicate, that exhibits a two-dimensional sheet or layer structure.

Q95. Answer: (c) Thiruvananthapuram

The correct answer is Thiruvananthapuram.

Key Points

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• Thiruvananthapuram or Trivandrum the capital of the southern Indian state of Kerala.
• Thiruvananthapuram is a major tourist Centre known for the Padmanabhaswamy temple.
• Thiruvananthapuram called "the evergreen city of India "
• it's distinguished by its British colonial Architecture and many art galleries

Additional Information

• Rameswaram is a town on pamban island, in the southeast Indian state of Tamil Nadu,it is known for Ramanathaswamy temple.
• Madurai is an energetic, ancient city on the Vaigai river in the South Indian state of Tamil Nadu. Its skyline is dominated by the 14 colorful gopurams (gateway tower) of Meenakshi Amman temple.
• Mysuru a city of Indian Southwestern karnataka state, was the capital of the kingdom of Mysore from 1399 to 1947.

Q96. Answer: (a) Gussadi

The correct answer is Gussadi.

Key Points

• Indian gussadi dancer Kanaka Raju performs. He received the Padma Shri honour from the Indian government in 2021 for his contributions to the arts.
• Gussadi Kanaka Raju, a tribal folk musician who received the Padma Shri last year, has a new job. He has been named the chief dance master (CDM) of the newly established Kanaka Raju School of Gussadi Dance in Adilabad.
• Kanaka Raju received a Rs 1 crore gift from chief minister K Chandrasekhar Rao, who also urged Asifabad MLA Athram Sakku to get involved in building the tribal dancer's home.
• Ancient tribal dances from the Australian outback include the gussadi. For a fortnight during the event, Dandari troupes perform it. Despite the religious and cultural matter's great significance, successive administrations did not acknowledge it.

Additional Information

• A traditional dance from Bengal's Rarh area is called chhau. It might have sprung from the Sanskrit word chya. Some believe it to be derived from the Odia word Chhauni, which means "military camp, armour, and stealth."
• A significant form of Indian classical dance is called Sattriya or Sattriya Nritya. In order to effectively disseminate the Vaishnava religion, the great Assamese reformer and Vaishnava saint Mahapurusha Sankaradeva created the Sattriya dancing style in the 15th century A.D.
• The Maratha kings of South India, who dubbed this particular dance Sadir Nautch, are credited with coining the term Sadir.

Q97. Answer: (c) seven

The correct option is Seven.

Key Points

• Electromagnetic spectrum is the range of frequencies of electromagnetic radiation and their respective wavelengths.
• It covers electromagnetic waves with frequencies ranging from below 1 hertz to above 10^(25) hertz.
• Beginning at the low frequency (long wavelength) end of the spectrum these are:
• Radio Waves
• Microwaves
• Infrared
• Visible Light
• Ultraviolet
• X-rays
• Gamma rays
• Extreme ultraviolet, soft X-rays, hard X-rays and gamma rays are classified as Ionizing radiation.

Additional Information

• Radio waves have the lowest frequency and longest wavelength.
• Gamma rays have the highest frequency and shortest wavelength.
• Visible light is the section where all the colors (Violet, Indigo, Blue, Green, Yellow, Orange, Red) can be seen by human eyes.
• Color red has the longest wavelength and lowest frequency so it has the highest visibility.
• Color violet has the lowest visibility due to hightest frequency and shortest wavelength.

Q98. Answer: (c) Anoushka Shankar

The correct answer is Anoushka Shankar.

Key Points

• Land of Gold is 2014 is Gold is a 2014 South Korean morning drama broadcast by KBS2 featuring Kang Ye-sol, Kang Eun-tak,

Baek Seung-hee, and Lee Byung-hoon.

• It debuted on January 6, 2014, circulating from Mondays to Fridays at 9:00 a.m. for 163 episodes.

• Anoushka Shankar is an English American sitar player, maker, film writer, and extremist.

Additional Information

• Anoushka Shankar Awards and honors

• English Place of Lodge Safeguard, 1998

• Lady of the Year granted on Worldwide Ladies' Day 2003 in India

• Named as one of 20 Asian Legends by the Asia release of Time in 2004

• First Grammy Designation in 2003 On the planet Music classification for her third collection, Inhabit Carnegie Corridor. She was the most youthful ever candidate in this classification.

• In 2004 she got a Public Honor selection for a best-supporting entertainer in the film Dance Like A Man 2004.

• Anupama Bhagwat is an Indian sitar maestro.

• Shankar was granted India's most elevated nonmilitary personnel honor, the Bharat Ratna, in 1999.

Q99. Answer: (c) Lewis Carroll

The correct answer is Lewis Carroll.

Key Points

• Lewis Carroll also named as Charles Lutwidge Dodgson.

• He was an English author, poet and mathematician.

• His most notable works are Alice's adventures in Wonderland and it's sequel through the looking glass.

• He is best known as the author of the children's book Alice's Adventure in wonderland (1865) and it's sequel through the looking glass (1871)

• He was noted for his facility with word play, logic, and fantasy.

Additional Information

• Roald Dahl was a British novelist, short story writer, poet ,screenwriter ,and wartime fighter pilot of Norwegian descent.

• Ruskin bond is an Anglo Indian Author, his first novel, The room on the roof, was published in 1956 ,and received the John Llewellyn Rhys Prize in 1957.

• Ernest Hemingway was an American novelist, short writer and journalist. His economical and understated style - which he termed the iceberg theory had a strong influence on 20th century fiction, while his adventurous lifestyle and public image brought him admiration from later generations.

Q100. Answer: (b) Tropical deciduous forests

The correct answer is Tropical deciduous forests.

Key Points

• The most common types of forests in India are tropical deciduous forests. They are also known as monsoon woods, and they cover a region that receives between 200 and 70 cm of precipitation annually.

• The northernmost deciduous forest in North America can be found in Sonora, Mexico.

• This environment, which is sometimes referred to as a tropical savanna, historically extended continuously from northern Mexico over a thousand miles into Central America, but only 15% of it is now there, and only 1% of it is protected.

• Mysore, a city in Karnataka, is referred to as India's "Sandalwood City." Sandalwood is made from trees in the genus Santalum.

Additional Information

• The North-Western region of the country, which includes the semi-arid states of Gujarat, Rajasthan, Uttar Pradesh, Chhattisgarh, Haryana, and Madhya Pradesh, is home to tropical thorn forests and scrubs, where the annual rainfall is less than 70 cm.

• Mangroves, a group of trees and shrubs, are found in the intertidal zone along the shore. Mangrove forest in Florida's Loxahatchee. Mangrove trees come in roughly 80 different species.

• The dense, multi-layered tropical evergreen forests are home to a wide variety of plants and animals. These woods are located in regions with a lot of rainfall (more than 200 cm annual rainfall). They have great density.

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