SSC CHSL Tier-1 2021: Official Paper (Held On : 8 June 2022 Shift 1) (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 option that can substitute the underlined segment in the given sentence.

The clock that we have in our town square is a big in the whole town

(a) the bigger
(b) the big
(c) the biggest
(d) a biggest

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

Comic

(a) Native
(b) Costly
(c) Tragic
(d) Empty

Q3. Complete the sentence with an appropriate ANTONYM of the word mentioned in the bracket.

My fascination with Tyler's items_____(approached) into distant memories.

(a) receded
(b) escalated
(c) expanded
(d) intensified

Q4. 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. These carriers of bacteria and viruses cause many diseases like Yellow Fever, Malaria etc. so panchayats and municipalities are taking a lot of care to protect people from them.

B. There are thousands of species of mosquitoes that are known to the people of the world. They mainly live in still water and other places where water is stored.

C. Mosquitos are everywhere now. Villagers, as well as city dwellers are afraid of these small creatures.

D. Usually, female and male mosquitoes take feed on plant’s or fruit honey, however female mosquitoes mostly suck the blood of humans.

(a) ADCB
(b) DABC
(c) CBAD
(d) ACBD

Q5. Select the option that can be used as a one-word substitute for the given group of words.

Easily provoked

(a) Invincible
(b) Irascible

(c) Iridescent
(d) Irrational

Q6. Select the most appropriate option that can be substitute the underlined segment in the given sentence.

Mr. Pramod couldn't wait to trying out his new recipe.

(a) waited to try out
(b) wait for try out
(c) waited to try
(d) wait to try out

Q7. Select the most appropriate option to fill in the blank.

Funny stories made me and my brother_____.

(a) conscious
(b) determined
(c) giggly
(d) gritty

Q8. Select the option that expresses the given sentence in passive voice.

I know her.

(a) She is whom I know.
(b) She is known to me.
(c) She knows me.
(d) I am known by her.

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

Uniform

(a) Inflexible
(b) Variable
(c) Orderly
(d) Irrelevant

Q10. The given sentence contains an error in tense form. Identify the error and choose the option that correctly rectifies the error.

Bakshi will going to call you later in the evening.

(a) Bakshi was gone to call you later in the evening.
(b) Bakshi will go to call you later in the evening.
(c) Bakshi is going to call you later in the evening.
(d) Bakshi goes to call you later in the evening.

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

Upset the apple-cart

(a) Withdraw
(b) Spoil careful plans
(c) Consider unsatisfactory
(d) To be offended

Q12. The following sentence has been split into four-segments. Identify the segment that contains a grammatical error.

They attend / a meeting / in Chicago / this weekend.

(a) a meeting
(b) this weekend
(c) in Chicago
(d) They attend

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Q13. Select the most appropriate meaning of the underlined word in the given sentence.

His perverse thoughts were by very disturbing so he decided to try seeing a therapist.

(a) Convergent
(b) Deviant
(c) Cynical
(d) Logical

Q14. Select the INCORRECTLY spelt word.

(a) Certificate
(b) Channel
(c) Champeon
(d) Challenge

Q15. Select the INCORRECTLY spelt word.

(a) Tryst
(b) Yogurt
(c) Serrene
(d) Shopaholic

Q16. Select the option that can be used as a one-word substitute for the underlined group of words.

The rich man was known all throughout the country for his noble deeds, kindness and as one who makes an active effort to promote

human welfare.

(a) Squanderer
(b) Spendthrift
(c) Pacifist
(d) Philanthropist

Q17. Select the most appropriate meaning of the given idiom.

Pocket an insult

(a) Insult someone strongly
(b) Endure insult and protest
(c) Tolerate insult without protest
(d) Rebel against insult

Q18. Select the most appropriate option to fill in the blank.

Settlers _____ a new colony in the early 18th century.

(a) fixed
(b) extended
(c) established
(d) entrenched

Q19. In the following questions a statement has been given with highlighted text. Select the options that can replace the text with correct idiom or phrase.

Reginald betrayed his closest friend. It was big shock for all.

(a) Stab someone in the back
(b) Looking to your laurels
(c) A black sheep
(d) Every cloud has a silver lining

Q20. Select the INCORRECTLY spelt word.

(a) Hilarious
(b) Demolish
(c) Magnificient

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(d) Gargantuan

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.

There was once a young man who wished to (1) _____his heart's desire. And while that is, as beginnings go, there was much about this young man and what happened to him that was unusual, (2) ____even he never knew the whole of it. The tale started. The town of Wall stands today as it has (3) _____for six hundred years, on a high (4) _____of granite slab amidst small forest woodland: There is a road from Wall, a winding track rising sharply up from the forest, where it is (5) _____with rocks and small stones.

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

(a) appreciate
(b) achieve
(c) prevail
(d) value

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

(a) despite
(b) even though
(c) although
(d) in spite

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

(a) established
(b) stood
(c) erected
(d) edified

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

(a) furrow
(b) trench
(c) jut
(d) line

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

(a) sequenced
(b) lined
(c) queued
(d) furnished

GENERAL INTELLIGENCE

Q26. 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.

MASTER : AMHGRE :: LUXURY : ULCFYR :: FORMAL : ?

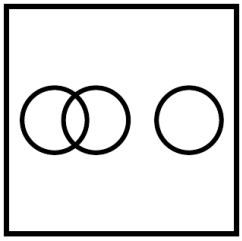
(a) OFMRAL
(b) OFAYLA
(c) OFYAAL
(d) OFINLA

Q27. Select the Venn diagram that best illustrates the relationship between the following classes.

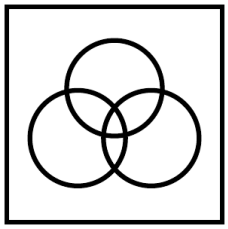
Doctor, Patient, Indian citizen

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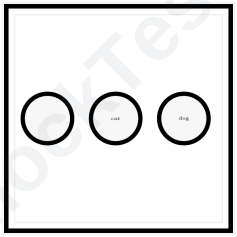
(a)



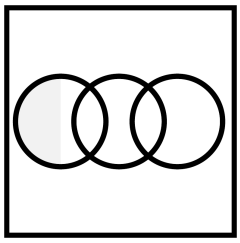
(b)



(c)



(d)



Q28. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

31 * 13 * 7 * 54 * 12 * 4 * 20

(a) =, ÷, -, ×, +, -

(b) +, ×, -, =, ×, +

(c) -, -, =, ×, +, ÷

(d) +, -, =, ×, -, +

Q29. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

96 * 3 * 5 * 56 * 16 * 120

(a) ÷, ×, -, +, =

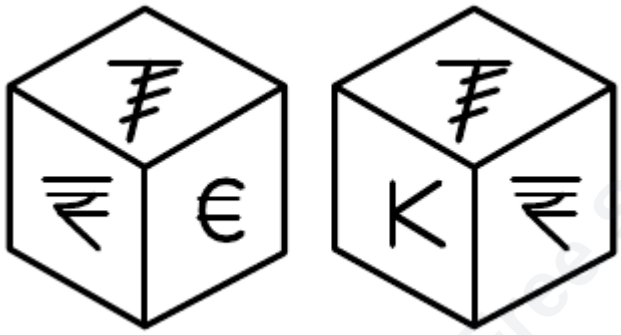
(b) ×, ÷, +, -, =

(c) ÷, ×, +, -, =

(d) -, +, ÷, ×, =

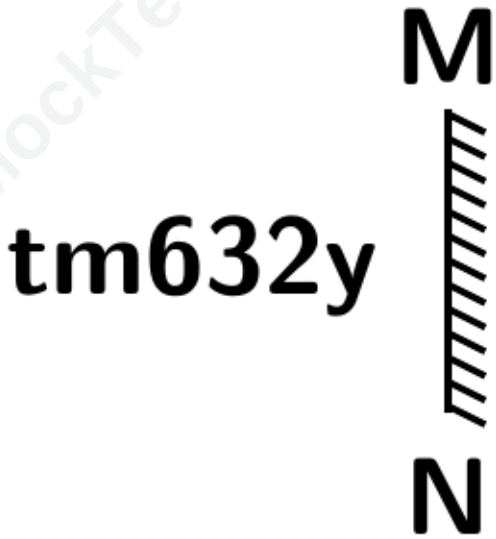
Q30. Two different positions of the same dice are shown, the six faces of which are marked as €, ?, ?, ?, Rs. , ?. Select the symbol that will be on the face opposite to the one showing '€'.

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(a) ?
(b) Rs.
(c) ?
(d) ?

Q31. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.
t m 6 3 2 y



(a)



(b)

A Secant

(c)



(d)



Q32. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

45 * 9 * 3 * 7 * 5 * 21

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

Q33. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Elegant
2. Electrician
3. Elephant
4. Elated
5. Elongated

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

Q34. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 124, 38, 100

Second row: 78, 25, 64

Third row: 94, 31, ?

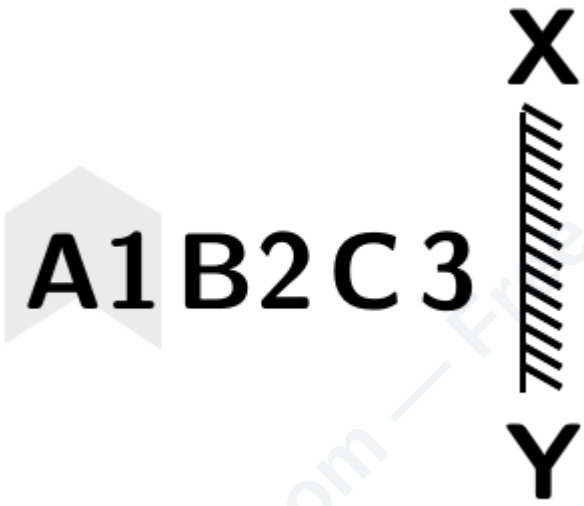
(NOTE: Operations should be performed on the whole numbers, without breaking down the number into its constituent digits. For example, 13 – Operations on 13 such as adding/deleting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(a) 84
(b) 80
(c) 74
(d) 78

Q35. Select the correct mirror image of the given combination when the mirror is placed at XY as shown.

A 1 B 2 C 3

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(a)



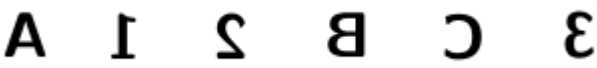
(b)



(c)



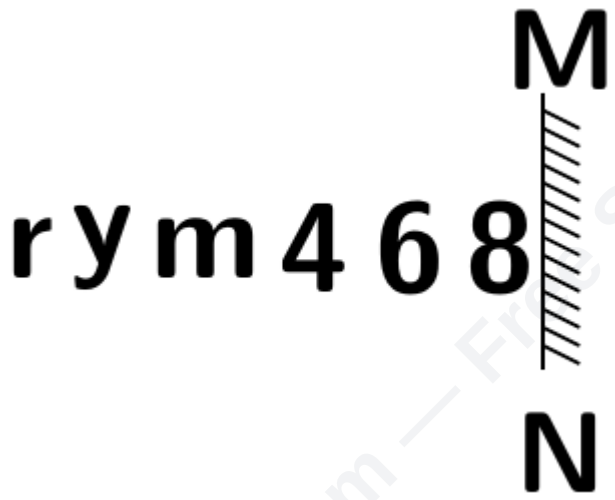
(d)



Q36. In a certain code language, “TAUGHT” is written as “VYWEJR”, and “SIMPLE” is written as “UGONNC”. How will “RETURN” be written in that language?

(a) TCWTTL
(b) TCVSTL
(c) TBVSTL
(d) TCWSTL

Q37. Select the correct mirror image of the given combination when the the mirror is placed at MN as shown.



(a)



(b)



(c)



(d)



Q38. In a certain code language, 'HONEST' is written as 'NTRHUU', and 'LABOUR' is written as 'RFFRWS'. How will 'ENOUGH' be written in that language?

(a) KSRYIJ
(b) KSSYJI
(c) KSSYII
(d) KSSXII

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Q39. Which letter cluster will replace the question mark (?) to complete the given series?

ETRE, HSPJ, KRNO, ?

(a) NPMT
(b) NQLT
(c) NPLT
(d) NQMT

Q40. Which of the following numbers will replace the question mark (?) in the given series?

14, 26, 11, ?, 8, 32

(a) 29
(b) 22
(c) 25
(d) 18

Q41. If ‘A’ denotes ‘+’, ‘B’ denotes ‘× ’, ‘C’ denotes ‘–’ and ‘D’ denotes ‘÷’, then what will come in place of ‘?’ in the following equation?

18 A 23 C 6 B (96 D 16) A 3 B 12 = ?

(a) 44
(b) 41
(c) 20
(d) 31

Q42. Select the figure that will replace the question mark (?) in the following figure series.

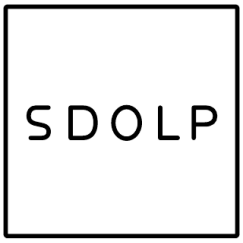


(a)

(b)



(c)



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(d)



Q43. Which of the following numbers will replace the question mark (?) in the given series?

154, 165, 148, ?, 142, 177

(a) 174
(b) 162
(c) 171
(d) 168

Q44. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(31, 26, 155)

(18, 12, 108)

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding /deleting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed.)

(a) (16, 9, 114)
(b) (19, 15, 84)
(c) (17, 9, 136)
(d) (18, 10, 148)

Q45. If it was Wednesday on 1st January 2020, then what day of the week was it on 28th February 2021?

(a) Saturday
(b) Tuesday
(c) Monday
(d) Sunday

Q46. Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

DWE, GTH, JQK, MNN, ?

(a) NOP
(b) PQR
(c) OPQ
(d) PKQ

Q47. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

84 * 6 * 25 * 13 * 3

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

Q48. Which letter-group will replace the question mark (?) in the given series?

78, 97, 54, ?, 30, 145

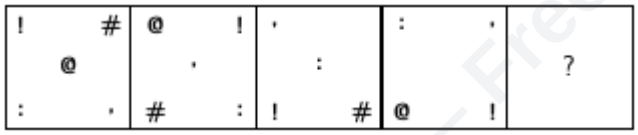
(a) 113
(b) 121
(c) 115
(d) 107

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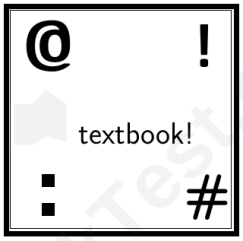
Q49. In a certain code language, 'ACNE' is written as 'XZVM' and 'BODY' is written as 'LYBW'. How will 'EVIL' be written in that language?

(a) OVER
(b) VEOR
(c) EVOR
(d) ROEV

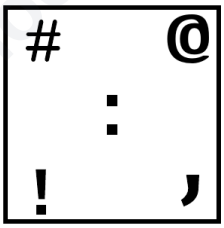
Q50. Select the figure that will replace the question mark (?) in the following figure series.



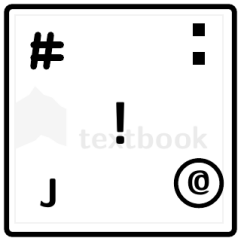
(a)



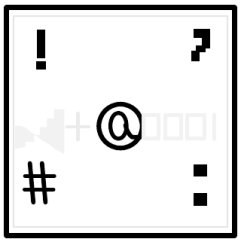
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. Study the given table carefully to answer the question that follows.

The following table given the information about the populations of five different cities in the year 2020.

City	Total Population	% of Men	% of Women	% of children
P	46800	45%	35%	20%
Q	45400	35%	50%	15%

R	42000	48%	42%	10%
S	39250	42%	42%	16%
T	46200	40%	45%	15%

The number of women in city T forms approximately what percentage of the number of men in city P?

(a) 97.28%
(b) 97.82%
(c) 98.12%
(d) 98.72%

Q52. If two supplementary angles differ by 74°, then one of the angles is:

(a) 65°
(b) 55°
(c) 43°
(d) 53°

Q53. By selling an article for Rs 255, there is a loss of 15%. When the article is sold for Rs 357, the net result in the transaction is:

(a) 19% profit
(b) 17% loss
(c) 19% loss
(d) 17% profit

Q54. The difference between a single discount of 20% and two successive discounts of 16% and 4% on a bill of Rs 50,000 is:

(a) Rs 450
(b) Rs 240
(c) Rs 320
(d) nil

Q55. Kuldeep offers his customers a discount of 10% on the marked price of a suitcase and he still makes a profit of 20%. What is the actual cost of the suitcase marked for Rs 2,500?

(a) Rs 1,860
(b) Rs 1,875
(c) Rs 1,865
(d) Rs 1,870

Q56. Study the table and answer the question.

Age of the child	**5 years**	**6 years**	**7 years**	**8 years**	**9 years**
Weight (in kg)	20	22	22	27	25

The sum of the weights of which two kids (referred to their ages) exceeds 50 kg?

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

Q57. X does a work in 6 days, while Y does it in 12 days. If they work alternatively and X begins, in how many days will the work be finished?

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

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Q58. What should be subtracted from 246837 to make it divisible by 13 ?

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

Q59. The fourth proportional to 14, 21, 28 is:

(a) 46
(b) 40
(c) 42
(d) 44

Q60. After spending 20% of his salary on grocery and 30% of the remainder on monthly house rent, a man is left with Rs 8,400. What is his monthly salary?

(a) Rs 42,000
(b) Rs 28,000
(c) Rs 16,800
(d) Rs 15,000

Q61. A car travelled distances of 10 km, 20 km and 30 km at speeds of 30 km/h, 40 km/h and 60 km/h, respectively. The average speed of the car is:

(a) 45 km/h
(b) 20 km/h
(c) 30 km/h
(d) 40 km/h

Q62. If $x = \sqrt{10} + \sqrt{11}$, $y = \sqrt{10} - \sqrt{11}$, then value of $7x^2 - 50xy + 7y^2$ = _____.

(a) 344
(b) 704
(c) 1360
(d) 386

Q63. The distance between stations A and B is 778 kilometres. A train travels from station A to station B at a uniform speed of 84 km/h and then returns to station A at a uniform speed of 56 km/h. What is the train's average speed (in km/h) throughout the journey?

(a) 63.4
(b) 66
(c) 67.2
(d) 65

Q64. Two numbers are less than a third number by 30% and 37% respectively. By how much is the second number lesser than the first?

(a) 3%
(b) 7%
(c) 4%
(d) 10%

Q65. Ramesh bought a house for Rs 2,00,000. At the end of the first year, he sold it at a loss of 10% on his investment. He invested the money thus obtained at a rate of 20% p.a. interest compounded aunually for 2 years. The value of this investment would amount to _____.

(a) Rs 2,59,200
(b) Rs 2,52,300
(c) Rs 2,56,900
(d) Rs 2,54,600

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Q66. tan (π + θ) = ?

(a) secθ
(b) cosecθ
(c) cotθ
(d) tanθ

Q67. Number B is 17.5% less than number A, while number C is 22.5% more than number B. If the value of C is given as 8085, what is the value of A?

(a) 7800
(b) 7750
(c) 8000
(d) 8100

Q68. The surface area of a volleyball spherical is 100π cm^2. Find the volume of air enclosed in the ball.

(a) 400/3 π cm^3
(b) 350/3 π cm^3
(c) 500/3 π cm^3
(d) 200/3 π cm^3

Q69. If 9 × 4 of 3 ÷ 2 - 5 × Q + 2 × 3 = 10, then find the value of Q.

(a) 10
(b) 0.2
(c) 0.1
(d) 5

Q70. The average of the four numbers, given in a particular order, is 48. The average of the first three numbers is 42, while the average of the last three numbers is 50. What is the average of the first and last number?

(a) 54
(b) 55
(c) 56
(d) 53

Q71. In a school, the final grades of a subject for an academic year are calculated, based on the grades that a student gets in his assignments, tests and a final exam. Assignments have the weightage of 28%, tests of 22%, and the final exam of 50%. If a student has an assignment grade of 80, a test grade of 75, an exam grade of 86, then his overall grade for the year is _____.

(a) 81.9
(b) 80.5
(c) 84.6
(d) 90.2

Q72. The total surface area of a hemisphere is 64.57 cm^2. Find its curved surface area.

(a) 64.57 cm^2
(b) 53.44 cm^2
(c) 43.04 cm^2
(d) 33.04 cm^2

Q73. The expression x^4 – 8x^2 + m will be a perfect square when the value of m is:

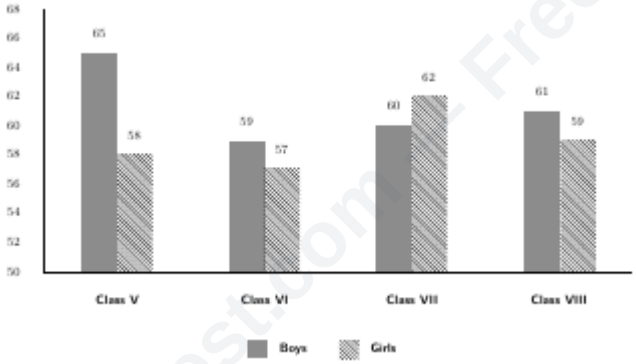
(a) 2
(b) 16
(c) 8
(d) 4

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Q74. A wall 10 m long, 5 m high and 20 cm thick is to be constructed using bricks of dimensions 25 cm × 20 cm × 10 cm. How many bricks are required?

(a) 2450
(b) 2000
(c) 2500
(d) 2050

Q75. The bar graph below gives the number of boys and girls in four different classes of a school.



As per the information provided in the bar graph, among all the four classes, which class has the least number of students, boys and girls taken together

(a) Class V
(b) Class VI
(c) Class VII
(d) Class VIII

GENERAL AWARENESS

Q76. In which year will India host the 15^(th) Men's Hockey World Cup?

(a) 2025
(b) 2023
(c) 2022
(d) 2024

Q77. Income of the state which arises out of the property left by the people without a legal heir is called _____.

(a) escheat
(b) writ
(c) de novo
(d) felony

Q78. In the case of Aparna Bhat vs State of Madhya Pradesh in 2021, the Supreme Court set aside the judgment of Madhya Pradesh High Court which prescribed _____ as condition for bail.

(a) giving money
(b) getting married
(c) tying rakhi
(d) giving job

Q79. Who among the following is a 19^(th) century exponent of the Kathak dance?

(a) Jatin Goswami
(b) Kalka Prasad
(c) Bhabhananda Barbayan
(d) Krishna Panicker

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Q80. Who among the following was one of the founders of Kerala Kalalayam in 1952?

(a) Pallavi Krishnan
(b) Rema Shrikant
(c) Kalamandalam Kalyanikutty Amma
(d) Sunanda Nair

Q81. Who proposed the ‘plum pudding’ theory of the divisible atom in which negatively charged electrons were scattered in a lump of positive charge like a raisin in plum pudding?

(a) Robert Andrews Millikan
(b) Emest Rutherford
(c) Sir JJ Thomson
(d) Henri Becquerel

Q82. In India, from where do the Extra-Tropical cyclones, which enter the Indian subcontinent from the west and the northwest during the winter months, originate?

(a) Over the Gulf of Khambhat
(b) Over the Arabian Sea
(c) Over the Gulf of Mannar
(d) Over the Mediterranean Sea

Q83. In April 2021, which Indian cricketer was named as ‘Wisden Almanack’s ODI Cricketer of 2010s in the 2021 edition of the Wisden Cricketers’ Almanack?

(a) Hardik Pandya
(b) K L Rahul
(c) Mahendra Singh Dhoni
(d) Virat Kohli

Q84. Who was the winner of the 7^(th) ICC T20 World Cup cricket?

(a) Australia
(b) Sri Lanka
(c) New Zealand
(d) England

Q85. Who published the book 'Method de nomenclature (System of Chemical Nomenclature)' along with Claude Berthollet and others that determined the modern method of naming substances?

(a) Jacob Berzelius
(b) Georg Brandt
(c) Antoine Lavoisier
(d) Wilhelm Ostwald

Q86. Which of the following State Governments started the Lata Mangeshkar Award in 1984?

(a) Maharashtra
(b) Madhya Pradesh
(c) Uttar Pradesh
(d) Gujarat

Q87. R Muthukannammal is a _____ dancer who got the Padma Shri in 2022.

(a) Jhora
(b) Khor
(c) Daph
(d) Sadhir

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Q88. A pyramid of biomass is a diagram that shows the population at each level of the food chain. Accordingly, _____ occupy the base with the highest biomass.

(a) secondary consumers
(b) Decomposers
(c) primary consumers
(d) producers

Q89. Which of the following names belong to Bharatanatyam ?

(a) Pandit Birju Maharaj
(b) Dr. Narthaki Natraj
(c) Kelucharan Mohapatra
(d) Guru Bipin Singh

Q90. Which chemical compound, with the chemical formula CH3CH2Cl, is used as a blowing agent in foamed plastics?

(a) 3-Chlorohexane
(b) 1-chloropropane
(c) Chloromethane
(d) Chloroethane

Q91. Who among the following Indian music directors introduced Western tunes in the Hindi film industry, who was popularly known as Pancham Da'?

(a) Salil Chowdhury
(b) Vijaya Bhaskar
(c) Omkar Prasad Nayyar
(d) Rahul Dev Burman

Q92. Who was famous for the invention of the vacuum pump in the 17^(th)century and also pioneered the concept of the absolute vacuum of space, measured the weight of air and used air pressure to predict the weather?

(a) John Cockcroft
(b) Otto von Guericke
(c) Enrico Fermi
(d) Valerianus Magnus

Q93. What is the common name of the members of family Phaeophyceae?

(a) Green algae
(b) Red algae
(c) Brown algae
(d) Blue green algae

Q94. 'Jakhan Choto Chilam' is an autobiography written in the Bengali language by which of the following Indian Bangla film directors?

(a) Rituparno Ghosh
(b) Mrinal Sen
(c) Satyajit Ray
(d) Tapan Sinha

Q95. Who among the following personalities was awarded the Padma Shri for his contribution to Bundeli Folk Dance in 2022?

(a) Ravi Shankar Sharma
(b) Dinesh Kumar Barkesia
(c) Anil Kumar Raghupati
(d) Ram Sahay Pandey

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Q96. Pandit Ravi Shankar was one of the best known players of the _____.

(a) Sitar
(b) Sarangi
(c) Sarod
(d) Tabala

Q97. The Fifteenth Finance Commission was constituted in:

(a) 2016
(b) 2017
(c) 2018
(d) 2019

Q98. In which of the following categories did the weightlifter Mirabai Chanu bag a silver medal at the Tokyo Olympics 2020?

(a) 55 kg
(b) 49 kg
(c) 64 kg
(d) 59 kg

Q99. Which of the following novels by Krishna Sobti was originally published as ‘Dilo-Danish’?

(a) Memory's Daughter
(b) The Music of Solitude
(c) A Gujarat Here, A Gujarat There
(d) The Heart Has its Reasons

Q100. Which of the following awards was conferred on Krishna Sobti in the year 1980 for her Hindi novel ‘Zindaginama’?

(a) Sahitya Akademi Award
(b) Saraswati Samman
(c) Jnanpith Award
(d) Vyas Samman

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) the biggest

The correct answer is "the biggest"

Key Points

• Here in this statement one is comparing the clock in the town square with respect to all the watches in town.
• Superlative degrees are used for such types of comparisons and "the biggest" is the superlative degree.

• Also we do not use the article "a" with superlative degrees because superlatives make the noun specific and the article "the" is used with specific nouns.
• Example: This glass is the biggest of all the four glasses in the shop.
• Therefore, the correct option here is the biggest(option 3).

The correct sentence is: The clock that we have in our town square is the biggest in the whole town.

Additional Information Let us have a look at the other options also:

• "The bigger" is a comparative degree and these degrees are used to compare two things only.
• Example: This watch is bigger than the other one.
• "The big" is simply used when we are talking about only one specific thing.
• Example: The big house.
• "A biggest" is never used because we do not use the article "a" with superlative degrees.

Q2. Answer: (c) Tragic

The correct answer is: "Tragic"

Key Points

• The word given here is "Comic" which means something related to comedy or something that makes you laugh.
• Example*: I love reading comic books.*
• The marked word is "Tragic" which means something related to death, accident, mishappening, or that makes you feel sad.
• Example*: Her sister's death was so tragic.*
• We can clearly see that both words are exactly opposite to each other.
• Therefore, "Tragic" is an antonym for "Comic".

Additional Information Let us have a look at the other options.

• "Native" means a person who was born in some specific country and also lives there.
• Example*: He is a native of America.*
• "Costly" means something that requires a lot of money.
• Example*: This dress is very costly.*
• "Empty" means there is nothing inside.
• Example*: This room is empty.*

Q3. Answer: (a) receded

The correct answer is "receded"

Key Points

• The word given in the bracket is "approached" which means to come close(near) to something or something.
• Example*: He approached the truck.*
• We have to fill the opposite of (approached) in the blank space.
• From the above options word "Receded" means to move away from something.
• Example*: These haunted memories will recede with time.*
• Therefore, the word "Receded" is the opposite of the word "approached".

The correct sentence is: My fascination with Tyler's items receded into distant memories.

Additional Information Let us look at other options also:

• Escalated means to make something bigger or faster.
• Example*: Rahul escalated the bike.*
• Expanded means to become bigger in size.
• Example*: Arjun has expanded his field area*.
• Intensified means to make something stronger or more serious.
• Example*: He intensified fighting by abusing.*

Q4. Answer: (c) CBAD

The correct answer is "CBAD"

Key Points

• When arranging sentences it is easier to order the first few, and then eliminate the options accordingly.
• The first sentence of a paragraph is usually independent and introduces a topic. The second one provides more information

about it.

• Here, only C and B are independent and introduce a topic. So, we look at their interrelation.

• Out of these, C is truly independent while B provides more information about "Mosquitos are everywhere now. Villagers, as well.." introduced by C.

• So, B must come after C. Then CB is the correct order for the first two lines.

• This particular order is shown by option 3 "CBAD".

Thus, the correct sequence is: "CBAD"

C: Mosquitos are everywhere now. Villagers, as well as city dwellers, are afraid of these small creatures.

B: There are thousands of species of mosquitoes that are known to the people of the world. They mainly live in still water and other places where water is stored.

A: These carriers of bacteria and viruses cause many diseases like Yellow Fever, Malaria, etc. so panchayats and municipalities are taking a lot of care to protect people from them.

D: Usually, female and male mosquitoes take feed on plants or fruit honey, however female mosquitoes mostly suck the blood of humans.

Q5. Answer: (b) Irascible

The correct answer is "Irascible"

Key Points

• The most appropriate one-word substitute for the given group of words is "Irascible".

• Irascible: means a person who tends to be easily angered or short-tempered.

• Example*: She is an irascible and tough woman.*

• Therefore, as per the above-mentioned points option 2, "Irascible" is the correct answer.

Additional Information Let us have a look at the meaning of other options also:

Word	Meaning
Invincible	someone who is very strong and cannot be defeated easily
Iridescent	someone or something giving a lustrous and glossy shining look
Irrational	something that is not clearly thought or doesn't have any reason

Q6. Answer: (d) wait to try out

The correct answer is "wait to try out".

Key Points

• "Trying" in "wait to trying out" is in the present continuous tense.

• Present continuous tense is used to indicate the action going on.

• Example: Lucy is eating her breakfast.

• In the given sentence, the action is yet to start. This demands the usage of simple present tense.

• Therefore, the correct sentence should be "Mr Pramod couldn't wait to try out his new recipe".

Additional Information

• The present tense is divided into simple, continuous, perfect, and perfect continuous.

• | Tense | Meaning | Example |

Simple Present	denotes facts or actions happening now	She sits on the chair.
Present Continuous	denotes the action happening	She is sitting on the chair.
Present Perfect	denotes the action that started in the recent past and has its influence in the present.	She has sat on the chair.
Present Perfect Continuous	denotes the action that started in the recent past and has its influence is going on in the present.	She has been sitting on the chair.

Q7. Answer: (c) giggly

The correct answer is: "giggly"

Key Points

• Here the correct word to be filled in is "giggly".
• Word "giggly" means to laugh in a silly way.
• Example: A group of giggly girls was punished by a teacher.
• Funny stories can make anyone laugh.
• Therefore, "giggly" can be used here to represent laughing behavior.
The correct sentence is: Funny stories made me and my brother giggly.
Additional Information Let us look at other options also:
• "Conscious" means to be in an active mental state.
• Example: He became conscious after three hours.
• "Determined" means to have an affirmation for doing something.
• Example: He is fully determined toward his goal.
• "Gritty" means to show courage.
• Example: Eyes of the soldiers in the war were gritty.

Q8. Answer: (b) She is known to me.

The correct answer is "She is known to me"
Key Points
• Given sentence "I know her" is in simple Present Indefinite tense and in Active form.
• The rule for changing a simple Present Indefinite tense form into a Passive form is as follows:
• Interchange the object and subject with each other, i.e. object of the active sentence become the subject of the passive sentence.
• The helping verb comes before the object in the passive voice as the passive voice starts with the object of the active voice.
• Convert the "know" into a past participle or 3rd form of the verb.
• "I" will change into "me" and "her" will change into "she".
• Structure: Subject+ V1 + Object.(Active Voice)
Subject+ is+ V3 + to + Object.(Passive Voice)
• Example*: Active Voice: He drives a car.*
Passive Voice: A car is driven by him.
Additional Information
• In active voice, a sentence emphasizes the subject performing an action.
• in passive voice, a sentence emphasizes the object performing an action.

Q9. Answer: (b) Variable

The correct answer is: "Variable"
Key Points
• The word given here is "Uniform" which means something which is the same every time or that doesn't change with time.
• Example: He is driving the car at a uniform speed.
• The marked word is "Variable" which means something that changes with time and doesn't remain constant.
• Example: It is difficult to calculate the cost with so many variables.
• We can clearly see that both words are exactly opposite to each other.
• Therefore, "Variable" is an antonym for "Uniform".
Additional Information
Let us have a look at the other options.
• "Inflexible" means something which is not flexible.
• Example: His body is inflexible.
• "Orderly" means something that acquires a specific order.
• Example: Every task should be done orderly in the company.
• "Irrelevant" means something that does not make any sense.
• Example: This discussion is totally irrelevant.

Q10. Answer: (c) Bakshi is going to call you later in the evening.

The correct answer is "Bakshi is going to call you later in the evening".
Key Points

• Fixed appointments demand the usage of the present tense even if the incident happens in the future.
• Example: Tomorrow is a holiday.
• Here, the situation is fixed that Bakshi will call. So, the present continuous tense is more appropriate.
• Moreover, in the future continuous tense, the "will + ing verb" does not come together.
• The correct format is "will + be+ ing verb".
• Example: Tina will be going to the museum this evening.
• Therefore, the correct answer is Option 3.

Additional Information

• The future tense is divided into simple, continuous, perfect and perfect continuous.

Tense	Meaning	Example
Simple	denotes future incidents	Mark will sing this evening.
Continuous	denotes the future progressing action.	Mark will be singing this evening.
Perfect	denotes completed action in future.	Mark will have sung this evening.
Perfect Continuous	denotes actions that are unfinished but will be finished in the future.	Mark will have been singing this evening.

Q11. Answer: (b) Spoil careful plans

The correct answer is "spoil careful plans".

Key Points

• The appropriate meaning of the idiom "upset the apple cart" is "spoil careful plans".
• Upset the apple cart - to cause trouble to someone's plans.
• Example: Dan did not say anything that would upset the apple cart.
• Therefore, the correct answer is Option 2.

Additional Information

• Let's see some idioms beginning with "ring".

Idioms	Meanings	Examples
Ring out	sound loud and clear.	Steffy rang out her points during the competition.
Ring around	to call many people to organize something	John rang around his family for Christmas eve.
Ring the bell	reminds of something	This shop is ringing the bell about our last meet.

Q12. Answer: (d) They attend

The correct answer is "they attend"

Key Points

• Error is in the part "they attend" of the sentence.
• As per the sentence structure, they must attend it this weekend.
• Therefore, the sentence should be in the Future Continuous tense. Its correct form will be:
• They will be attending a meeting in Chicago this weekend.
• Therefore, as per the above-mentioned points correct answer is option 4 "they attend".

The correct answer: They will be attending a meeting in Chicago this weekend.

Q13. Answer: (b) Deviant

The correct answer is "Deviant"

Key Points

• Let us have a look at the meaning of all the options:
• Convergent: means we can establish a solution to any problem by reasoning and logic.
• Deviant: unacceptable and disturbing
• Cynical: Believing or showing the belief that people are motivated chiefly by base or selfish concerns; skeptical of the motives of

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others.
• Logical: having some sort of sense
• Now, the meaning of perverse: is to think in an unacceptable way or be disturbed.
• Now we can see from the above-mentioned options only deviant relates in meaning with perverse.
• Therefore correct option is option 2 "Deviant".

Q14. Answer: (c) Champeon

The incorrectly spelled word is "Champeon"
Key Points
• In the given options "Champeon" is an incorrectly spelled word. Its correct spelling is "Champion".
• Let's look at its meaning:
• Champion: a person who has won any league or tournament
• Example: He is a Champion in boxing.
• Therefore, as per the points mentioned above, we find that the correct answer is Champeon.
The correct answer is: champeon
Additional Information Let's look at the meaning of other words given in the options:

Words	Meaning
Certificate	An paper that officially claims that something is true and valid.
Channel	A television station
Challenge	something that force us to go through difficulties

Q15. Answer: (c) Serrene

The incorrectly spelled word is "Serrene"
Key Points
• In the given options "Serrene" is an incorrectly spelled word. Its correct spelling is "Serene".
• Let's look at its meaning.
• Serene: calm and peaceful.
• Example: She has a very serene smile.
• Therefore, as per the points mentioned above, we find that the correct answer is Serrene.
Additional Information
Let's look at the meaning of other options also:

Word	Meaning
Tryst	a private meeting between two lovers
Yogurt	a food obtained from milk by its fermentation adding bacteria
Shopaholic	one who loves shopping

Q16. Answer: (d) Philanthropist

The correct answer is "Philanthropist".
Key Points
• The appropriate answer which means "one who makes an active effort to promote human welfare" is "Philanthropist".
• A philanthropist means a person who helps the poor and needy by giving money.
• Example: Sam paid fees for the slum children. He is a philanthropist.
• Therefore, the answer is Option 4.
Additional Information
• Squanderer - a person who spends excessively.
• Example: Rita is a squanderer as she spent thousands on bags.
• Spendthrift - a person who spends money wastefully.
• Example: Jim loves shopping and is a spendthrift.
• Pacifist - a person who is against war and violence.

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• Example: I prefer sorting problems through words. I am a pacifist.

Q17. Answer: (c) Tolerate insult without protest

The correct answer is "tolerate insult without protest".

Key Points

• The appropriate answer which means "pocket an insult" is "tolerate insult without protest".
• "Pocket an insult" means withstanding an insult without retreating back.
• Example: Tom pocketed John's insults because they were friends.
• Therefore, the correct answer is Option 3.

Additional Information

• Let's see some widely used idioms.

Idiom	Meaning	Example
see eye to eye	agreeing with someone	I finally saw eye to eye with my designer.
a piece of cake	very easy	The job interview was a piece of cake.
when pigs fly	rare occasions	Rim will donate only when pigs fly.

Q18. Answer: (c) established

The correct answer is "established".

Key Points

• Established means something that was built or founded.
• Example: The migrants established an association in a foreign land.
• Therefore, the appropriate option is "established".

Additional Information

• Fixed - something that is stable.
• Example: The plumber fixed the shower as it was leaking.
• Extended - lengthen something.
• Example: This book is an extended version of the movie.
• Entrenched - an attitude or habit that is unlikely to change.
• Example: The famous college has an entrenched managing body.

Q19. Answer: (a) Stab someone in the back

The correct answer is "stab someone in the back".

Key Points

• Betrayed means to cheat someone.
• Example: The agent betrayed me by giving me a different house from the picture.
• Stab someone in the back means deceive someone.
• Example: The shopkeeper stabbed the customer on his back by selling a defective piece.
• Therefore, the appropriate idiom which means "betrayed" is "stab someone in the back".

Additional Information

• Let's see the other idioms given in the options.

Idiom	Meaning	Example
Looking to your laurels	to put an extra effort to succeed.	If Tom needs to lead the score board, he needs to look at his laurels.
A black sheep	The odd one of the group.	Martha was the black sheep in the gang as she was the only girl.
Every cloud has a silver lining	even a bad situation has some hope.	Nora was able to score well despite her accident. She believed that every cloud has a silver lining.

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Q20. Answer: (c) Magnificient

The correct answer is "Magnificient".

Key Points

• The correct spelling of "Magnificient" is "Magnificent".
• Magnificent means grand and lavish.
• Example: The business magnet has a magnificent car.
• Therefore, the incorrectly spelt word is "Magnificient".

Additional Information

• Hilarious - very funny.
• Example: Jim's dressing style is hilarious.
• Demolish - destroy.
• Example: The government is demolishing houses to widen the roads.
• Gargantuan - enormous.
• Example: This property is gargantuan.

Q21. Answer: (b) achieve

The correct answer is "achieve".

Key Points

• "Achieve" means to accomplish something.
• Example: Diana achieved in convincing her parents for a night out.
• The blank demands a word that means "completed something successfully".
• Therefore, "achieve" is the appropriate option.

Additional Information

• Appreciate - praise a person or an object.
• Example: The boss appreciated his team for their hard work.
• Prevail - existing at the time.
• Example: The prevailing orders must be shipped by tomorrow.
• Value - of some benefit.
• Example: This chair is of great value as it is made up of sandal wood.

Q22. Answer: (c) although

The correct answer is "although".

Key Points

• Although is a conjunction which means "in spite of the fact".
• It has a tone of surprise.
• Example: Although it was bright and sunny, we played on the beach.
• Therefore, the appropriate option is "although".

Additional Information

• Despite - without any affect from the object mentioned.
• Example: He was slim despite being a foodie.
• Even though - means the same as "Although". But it has a stronger tone than "although".
• Example: Even though I waited in the queue for an hour, I was unable to get the ticket.
• In spite - regardless.
• Example: In spite of my warning, she did not study for the test.

Q23. Answer: (b) stood

The solution is in Hindi. Read it online.

Q24. Answer: (c) jut

The correct answer is "jut".

Key Points

• "Jut" means to extend beyond the surface of something.
• Example: The tile has jutted to the next room.

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• Therefore, "Jut" is the appropriate option.

Additional Information

• Furrow - a deep and long cut on the surface.

• Example: Mr Evans has a furrow on his forehead because of old age.

• Trench - a long narrow passage dug into the ground to make a passage.

• Example: The opposite country dug a trench into our country.

• Line - a straight mark on the surface.

• Example: Students were asked to stand in a straight line for the assembly.

Q25. Answer: (b) lined

The correct answer is "Lined".

Key Points

• "Lined" means assembling something in a straight manner.

• Example: The soldiers lined up for the drill.

• Therefore, "lined" is the appropriate option.

Additional Information

• Sequenced - one after the other.

• Example: My mother sequenced the jams according to their date of expiry.

• Queued - standing one behind the other to form a line.

• Example: The people queued to collect their ration.

• Furnished - provide the necessities.

• Example: Rini furnished the form with all the details.

Q26. Answer: (d) OFINLA

The logic followed here is:

MASTER : AMHGRE

it is coded as alphabet positional value

In the same way

LUXURY : ULCFYR

Similarly,

FORMAL : OFINLA

Hence, OFINLA is the correct answer.

Q27. Answer: (b) [figure]

The correct Venn diagram representation is

Some doctors can be patients and Indian citizens.

Some Indian citizens can be doctors and patients.

Some patients can be Indian citizens and doctors.

That's why three of the circles are overlapping partially.

Hence,

i.e. option 2 is the correct answer.

Q28. Answer: (b) +, ×, -, =, ×, +

The logic followed here is:

BODMAS table

Given : 31 * 13 * 7 * 54 * 12 * 4 * 20

Option 1.=, ÷, -, ×, +, - by subsituiting according to BODMAS rule

• 31 = 13 ÷ 7 - 54 × 12 + 4 -20

• 31 = 1.85 - 54 × 12 + 4 -20

• 31 = 1.85 - 648 + 4 - 20

• 31 = 5.85 - 648 - 20

• 31 ≠ 662.1(LHS ≠ RHS)

Option 2. +, ×, -, =, ×, + by subsituiting according to BODMAS rule

• 31 + 13 × 7 - 54 = 12 × 4 + 20
• 31 + 91 - 54 = 48 + 20
• 122 - 54 = 68
• 68 = 68 (LHS = RHS)

Option 3. -, -, =, ×, +, ÷ by subsituiting according to BODMAS rule
• 31 - 13 - 7 = 54 × 12 + 4 ÷ 20
• 31 - 13 - 7 = 54 × 12 + 0.2
• 31 - 13 - 7 = 648 + 0.2
• 31 - 13 - 7 = 648.02
• 31 - 20 = 648.02
• 11 ≠ 648.2(LHS ≠ RHS)

Option 4. +, -, =, ×, -, + by subsituiting according to BODMAS rule
• 31 + 13 - 7 = 54 × 12 - 4 + 20
• 31 + 13 - 7 = 648 - 4 + 20
• 44 - 7 = 648 - 16
• 37 ≠ 632(LHS ≠ RHS)

Hence, +, ×, -, =, ×, + is the correct answer.

Q29. Answer: (a) ÷, ×, -, +, =

BODMAS table

Given : 96 * 3 * 5 * 56 * 16 * 120

Option 1. ÷, ×, -, +, = by substituting these values by BODMAS rule
• 96 ÷ 3 × 5 - 56 +16 = 120
• 32 × 5 - 56 +16 = 120
• 160 - 56 +16 = 120
• 176 - 56 = 120
• 120 = 120 (LHS = RHS)

Option 2.×, ÷, +, -, =by substituting these values by BODMAS rule
• 96 × 3 ÷ 5 + 56 -16 = 120
• 96 × 0.6 + 56 -16 = 120
• 57.6 + 56 - 16 = 120
• 113.6 ≠ 120 (LHS ≠ RHS)

Option 3.÷, ×, +, -, =by subsituting these values by BODMAS rule
• 96 ÷ 3 × 5 + 56 -16 = 120
• 32 × 5 + 56 - 16 = 120
• 160 + 56 -16 = 120
• 216 - 16 = 120
• 200 ≠ 120(LHS ≠ RHS)

Option 4. -, +, ÷, ×, =by subsituting these values by BODMAS rule
• 96 - 3 + 5 ÷ 56 × 16 = 120
• 96 - 3 + 0.08 × 16 = 120
• 96 - 3 + 1.28 = 120
• 97.28 - 3 = 120
• 94.28 ≠ 120 (LHS ≠ RHS)

Hence, " ÷, ×, -, +, =" is the correct answer.

Q30. Answer: (c) ?

Given :

In the image we can see that the left of Rs. is ? and the right of Rs. is €.

In a dice the left and right of the same face are placed opposite to each other. And in this case ? and € are in this position. Therefore

? is the face opposite to €

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'€' is opposite to ?

Hence, ? is the correct answer.

Q31. Answer: (a) [figure]

The logic followed here is:

In a mirror image left changes to right and the right changes to left.

The correct image of the given figure when the mirror is placed at MN is

Hence, Option1 is the correct answer.

Q32. Answer: (a) ÷, +, ×, -, =

Explanation :

BODMAS table

Given equation : 45*9*3*7*5*21

Option 1 : ÷, +, ×, -, = by subsituting values by BODMAS rule we get

• 45 ÷ 9 + 3 × 7 - 5 = 21

• 5 + 3 × 7 - 5 = 21

• 5 + 21 - 5 = 21

• 26 - 5 = 21

• 21 = 21 (LHS = RHS)

Option 2. : -, ÷, +, ×, = by subsituting values by BODMAS rule we get

• 45 - 9 ÷ 3 + 7 × 5 = 21

• 45 - 3 + 7 × 5 = 21

• 45 - 3 + 35 = 21

• 80 - 3 = 21

• 77 ≠ 21(LHS ≠ RHS)

Option 3 : ×, +, ÷, -, = by subsituting values by BODMAS rule we get

• 45 × 9 + 3 ÷ 7 - 5 = 21

• 405 + 0.42 - 5 = 21

• 405.42 - 5 = 21

• 400.42 ≠ 51(LHS ≠ RHS)

Option 4 : -, +, ×, ÷, = by subsituting values by BODMAS rule we get

• 45 - 9 + 3 × 7 ÷ 5 = 21

• 45 - 9 + 3 × 1.4 = 21

• 45 - 9 + 4.2 = 21

• 49.2 - 9 = 21

• 40.2 ≠ 21(LHS ≠ RHS)

Hence, "÷, +, ×, -, =" is the correct answer.

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

The logic followed here is:

The option that represents the correct order of the given words as they would appear in english dictionary shown below

4. Elated

2. Electrician

1. Elegant

3. Elephant

5. Elongated

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

Q34. Answer: (d) 78

The logic followed here is

First Row: 124 ÷ 2 + 38 = 62 + 38 = 100

Second Row: 78 ÷ 2 + 25 = 39 + 25 = 64

Third row: 94 ÷ 2 + 31 = 47 + 31 = 78

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Hence, 78 is the correct answer.
Alternate Method (3rd number - 2nd number) × 2 = 1st number
Now,
First row: 124, 38, 100 => (100 - 38) × 2 = 62 × 2 = 124.
Second row: 78, 25, 64 => (64 - 25) × 2 = 39 × 2 = 78.
Third row: 94, 31, ? => (78 - 31) × 2 = 47 × 2 = 94.
Hence, 78 is the correct answer.

Q35. Answer: (c) [figure]

The logic followed here is :
In a mirror image left changes to right and the right changes to left.
The correct mirror image of the given figure when the mirror is placed at XY.
Hence, Option 3) is the correct answer.

Q36. Answer: (b) TCVSTL

The logic followed here is:
Table of English alphabet positional value
“TAUGHT” is written as “VYWEJR”
“SIMPLE” is written as “UGONNC”
Similarly,
“RETURN” is written as "TCVSTL"
Hence, "TCVSTL" is the correct answer.

Q37. Answer: (c) [figure]

The logic followed here is :
In a mirror image left changes to right and the right changes to left.
The correct mirror image of the given figure when the mirror is placed at MN is
Hence, Option 3 is the correct answer.

Q38. Answer: (d) KSSXII

Explanation :
Table of english alphabet positional value
Hence, KSSXII is the correct answer.

Q39. Answer: (b) NQLT

Explanation :
Table of english alphabet positional value
ETRE, HSPJ, KRNO, NQLT
Hence, Option 2) is the correct answer.

Q40. Answer: (a) 29

The logic followed here is :
There are two series in the given series;
Series 1: 14, 11, 8, ...
Series 2: 26, ?, 32, ...
Hence, 29 is the correct answer.

Q41. Answer: (b) 41

Explanation :

Symbol	Meaning
A	•
B	×
C	•

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D	÷

Given equation : 18 A 23 C 6 B (96 D 16) A 3 B 12 = ?

=> 18 + 23 - 6 × (96 ÷ 16) + 3 × 12

=> 18 + 23 - 6 × 6 + 3 × 12

=> 18 + 23 - 36 + 36

=> 77 - 36

=> 41

Hence, 41 is the correct answer.

Q42. Answer: (b) [figure]

The logic followed here is:

The figure that will replace the question mark (?) in the following figure series is shown below

Logic : In second box they have interchanged first two words remaining words remain same then in third box they have interchanged 2^(nd)and 3^(rd) words remaining words remains same and so it continues like this.

Hence, Option 2 is the correct answer.

Q43. Answer: (c) 171

The pattern followed here is :

Hence, "171" is the correct answer.

Q44. Answer: (c) (17, 9, 136)

The logic followed here is :

First - second number = A; A × First number = Third number.

(31, 26, 155)

31 - 26 = 5; 5 × 31 = 155

(18, 12, 108)

18 - 12 = 6; 6 × 18 = 108

Similarly,

(16, 9, 114)

16 - 9 = 7; 7 × 16 = 112 ≠ 114 → Does not follow the pattern.

(19, 15, 84)

19 - 15 = 4; 4 × 19 = 76 ≠ 84 → Does not follow the pattern.

(17, 9, 136)

17 - 9 = 8; 8 × 17 = 136 → Follows the pattern

(18, 10, 148)

18 - 10 = 8; 8 × 18 = 144 ≠ 148 → Does not follow the pattern.

Hence, (17, 9, 136) is the correct answer.

Q45. Answer: (d) Sunday

Given: 1st January 2020 was Wednesday,

Leap Year	**2 odd days**
Ordinary Year	1 odd day

then,

1st January 2021 = Wednesday + 2(2020 is leap year) = Friday.

Now,

Number of days between 1st January 2021 to 28th February 2021 = 58 days

=> 58 days = 58/7 = 8 weeks and 2 odd days.

So, 28th February 2021 = Friday + 2 = Sunday.

Hence, the correct answer is "Sunday".

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Q46. Answer: (d) PKQ

The logic followed here is:

Table of alphabet positional value

DWE, GTH, JQK, MNN, PKQ

Hence, PKQ is the correct answer.

Q47. Answer: (a) ÷, +, =, ×

Explanation :

BODMAS Table

Given equation : 84 * 6 * 25 * 13 * 3

Option 1) ÷, +, =, × by subsituting these value according to BODMAS table we get

84 ÷ 6 + 25 = 13 × 3

14 + 25 = 13 × 3

14 + 25 = 39

39 = 39(LHS = RHS)

Option 2) =, -, +, ×

84 = 6 - 25 + 13 × 3

84 = 6 - 25 + 39

84 = 45 - 25

84 ≠ 20(LHS ≠ RHS)

Option 3) +, ÷, =, ×

84 + 6 ÷ 25 = 13 × 3

84 + 0.24 = 13 × 3

84 + 0.24 = 39

84.24 ≠ 39(LHS ≠ RHS)

Option 4) -, -, =, +

84 - 6 - 25 = 13 + 3

84 - 6 - 25 = 16

84 - 31 = 16

53 ≠ 16(LHS ≠ RHS)

Hence, "÷, +, =, ×" is the correct answer.

Q48. Answer: (b) 121

The pattern followed here is :

There are two series in the given series:

Series 1: 78 - 24 = 54; 54 - 24 = 30 ;

Series 2: 97 + 24 = 121; 121 + 24 = 145.

Hence, "121" is the correct answer.

Q49. Answer: (c) EVOR

The logic followed here is:

Table of english alphabet positional value is as follows:

‘ACNE’ is written as ‘XZVM’

A is sitting opposite to Z according to table as given above. same way all letters are sitting opposite according to positional value table

‘BODY’ is written as ‘LYBW’

Similarly,

'EVIL' is written as 'EVOR'

Hence, EVOR is the correct answer.

Q50. Answer: (c) [figure]

The logic followed here is:

The figure that will replace the question mark in the following figure series is given below:

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Hence, Option 3) is the correct answer.

Q51. Answer: (d) 98.72%

Calculation:

=> Number of women in City T = 45% of 46200

=> Number of women in City T = 45/100× 46200=20,790

=> Number of men in City P = 45% of 46800

=> Number of men in City P = 45/100× 46800=21,060

=> Percentage formed by number of women in city T as compared to number of men in city P = 20790/21060× 100=98.72

Hence, the percentage formed by number of women in city T as compared to number of men in city P is 98.72%

Q52. Answer: (d) 53°

Given:

Difference between two supplementary angles = 74º

Concept Used:

Sum of two supplementary angles = 180º

Calculation:

Let one angle be xº

So, the other angle will be (x – 74)º

Adding both angles together, we get

=> x + x – 74 = 180°

=> 2x = 180 + 74 = 254°

=> x = 254/2=127

=> So, first angle is 127º

=> Then, other angle will be = 127 – 74 = 53º

Hence, one of the angle is 53º

Q53. Answer: (a) 19% profit

Given:

Selling price of an article = Rs 255

Loss percentage = 15%

Concept Used:

Cost Price = 100/(100-Loss%)× SP

Profit % = Profit/CP× 100

Calculation:

=> Cost Price of an article = 100/(100-15)× 255

=> Cost Price of an article = 100/85× 255=300 Rs

=> When article is sold at Rs 357,

=> Profit = SP – CP = 357 – 300 = Rs 57

=> Profit % = 57/300× 100=19%

Hence, the net result in the transaction is 19% profit.

Q54. Answer: (c) Rs 320

Given:

Successive discounts = 16% and 4%

Single discount = 20%

Bill amount = Rs 50,000

Concept Used:

Discount = Amount – Discount % of Amount

Calculation:

=> Price after single discount of 20% = 50000 – 20% of 50000

=> Price after single discount of 20% = 50000-20/100× 50000=50000-10000=40000 Rs

Applying successive discounts

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=> Price after 16% discount = 50000 – 16% of 50000

=> Price after 16% discount = 50000-16/100× 50000=50000-8000=42000 Rs

=> Again after discount of 4% = 42000 – 4% of 42000

=> Price after total successive discounts = 42000-4/100× 42000=42000-1680=40320 Rs

=> Difference after applying both discounts = 40320 – 40000 = Rs 320

Hence, the difference between the single discount and successive discounts on a bill is of Rs 320

Q55. Answer: (b) Rs 1,875

Given:

Marked Price of suitcase = Rs 2,500

Discount = 10%

Profit % = 20%

Concept Used:

Cost Price = 100/(100+Profit%)× SP

Calculation:

=> Selling Price of suitcase = MP – Discount % of MP

=> Selling Price = 2500 – 10% of 2500 = 2500-10/100× 2500=2500-250=2250 Rs

According to the question, it makes profit of 20%

=> So, Cost Price of suitcase = 100/(100+20)× 2250=100/120× 2250

=> Cost Price = 10/12× 2250=10× 187.5=Rs 1875

Hence, the cost price of a suitcase is Rs 1875

Q56. Answer: (b) 8 years and 9 years

Calculation:

=> Sum of weight of 7 years and 8 years = 22 + 27 = 49 kg

=> Sum of weight of 8 years and 9 years = 27 + 25 = 52 kg

=> Sum of weight of 6 years and 7 years = 22 + 22 = 44 kg

=> Sum of weight of 6 years and 9 years = 22 + 25 = 47 kg

Hence, the sum of weight of kids which exceeds 50 kg is of 8 years and 9 years.

Q57. Answer: (c) 8

Given:

Number of days taken by X to complete the work = 6 days

Number of days taken by Y to complete the work = 12 days

Concept Used:

Work Efficiency = Total Work ÷ Total Time Taken

Calculation:

Let the total units of work be 18 units

=> Work Efficiency for X = 18/6=3 units / day

=> Work Efficiency for Y = 18/12=1.5 units / day

According to the question, work starts with X

=> First day work by X = 3 units

=> Second day work by Y = 1.5 units

=> Same way, working alternatively number of days taken to complete the work = 18/4.5× 2=8 days

Hence, working alternatively starting with X, the total number of days taken to finish the work is 8 days.

Q58. Answer: (b) 6

Given:

Dividend = 246837

Divisor = 13

Concept Used:

Divisibility Rule of 13 = For a given number, form alternating sums of blocks of three numbers from the right and move towards the left.

Calculation:
Applying the divisibility rule on 246837
=> 837 – 246 = 591
=> Dividing 591 by 13 gives
=> Quotient = 45 and Remainder = 6
So, 591 – 6 = 585 is divisible by 13
Hence, the number which should be subtracted from 246837 to make it divisible by 13 is 6

Q59. Answer: (c) 42

Concept Used:
Fourth proportional of three numbers, a, b, and c = (b× c)/a
Calculation:
=> a = 14, b = 21, c = 28
=> Fourth proportional of these three numbers = (21× 28)/14
=> Fourth proportional = 42
Hence, the fourth proportional to 14, 21, 28 is 42

Q60. Answer: (d) Rs 15,000

Given:
Percentage of salary spent on grocery = 20%
Percentage of salary spent of house rent = 30%
Left Amount = Rs 8400
Concept Used:
Monthly Salary = Expenditures + Savings
Calculation:
Let the monthly salary of man be Rs x
=> Amount left after spending on grocery = x – 20% of x = x-20/100× x=(5x-x)/5=4x/5
=> Now, Amount left after spending on house rent = 4x/5-30/100× 4x/5=4x/5-6x/25
=> Amount left after spending on house rent = (20x-6x)/25=14x/25
According to question,
=> 14x/25=8400
=> x=(8400× 25)/14=15000
Hence, the monthly salary of a man is Rs 15,000

Q61. Answer: (a) 45 km/h

Given:
Distances = 10 km, 20 km, 30 km
Speeds = 30 km/h, 40 km/h, 60 km/h
Concept Used:
Time=Distance/Speed
Calculation:
=> Time taken for the distance of 10 km = 10/30=1/3 hours
=> Time taken for the distance of 20 km = 20/40=1/2 hours
=> Time taken for the distance of 30 km = 30/60=1/2 hours
=> Total Distance = 10 + 20 + 30 = 60 km
=> Average Speed of car = 60/(1/3+1/2+1/2)=60/(1+1/3)
=> Average Speed of car = 60/(4/3)=(60× 3)/4=45km/h
Hence, the average speed of the car is 45 km/h.

Q62. Answer: (a) 344

Given:
x = √10 + √11
y = √10-√11

Concept Used:

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

$(a – b)^2 = a^2 + b^2 – 2ab$

$(a + b)(a – b) = a^2 – b^2$

Calculation:

$\Rightarrow 7x^2 – 50xy + 7y^2$

$\Rightarrow 7(\sqrt{10}+\sqrt{11})^2 – 50(\sqrt{10}+\sqrt{11})(\sqrt{10}-\sqrt{11}) + 7(\sqrt{10}-\sqrt{11})^2$

$\Rightarrow 7[(\sqrt{10})^2+(\sqrt{11})^2+2\times\sqrt{10}\times\sqrt{11}] – 50[(\sqrt{10})^2-(\sqrt{11})^2] + 7[(\sqrt{10})^2+(\sqrt{11})^2-2\times\sqrt{10}\times\sqrt{11}]$

$\Rightarrow 7(10 + 11 + 2\sqrt{110}) – 50(10 – 11) + 7(10 + 11 – 2\sqrt{110})$

$\Rightarrow 147 + 14\sqrt{110} + 50 + 147 – 14\sqrt{110}$

$\Rightarrow 344$

Therefore The value of the given expression is 344

Q63. Answer: (c) 67.2

Shortcut Trick

When the distance is constant for both parts of a journey, Average Speed = 2xy ÷ (x + y)

=> Forward speed (x) = 84 km/h, Return speed (y) = 56 km/h

=> Average speed = (2 × 84 × 56) ÷ (84 + 56)

=> Average speed = (2 × 84 × 56) ÷ 140

=> Average speed = 9408 ÷ 140 = 67.2 km/h

Therefore The correct answer is 67.2 km/h.

Alternate Method

Station A

Station B

Distance = 778 km

Speed = 84 km/h

Return Speed = 56 km/h

Given:

=> Distance between stations A and B = 778 km

=> Forward speed (v1) = 84 km/h

=> Return speed (v2) = 56 km/h

Formula Used:

=> Average Speed = Total Distance ÷ Total Time

=> Time = Distance ÷ Speed

Calculation:

=> Total Distance for the round trip = 778 + 778 = 1556 km

=> Time taken from A to B = 778 ÷ 84 hours

=> Time taken from B to A = 778 ÷ 56 hours

=> Total Time = (778 ÷ 84) + (778 ÷ 56)

=> Taking 778 common, Total Time = 778 × (1/84 + 1/56)

=> LCM of 84 and 56 is 168. Therefore, 1/84 + 1/56 = (2 + 3) ÷ 168 = 5 ÷ 168

=> Total Time = (778 × 5) ÷ 168 hours

=> Average Speed = 1556 ÷ [(778 × 5) ÷ 168]

=> Average Speed = (1556 × 168) ÷ (778 × 5)

=> Average Speed = (2 × 168) ÷ 5 = 336 ÷ 5 = 67.2 km/h

Therefore The correct answer is 67.2 km/h.

Additional Information

Average Speed for Unequal Distances

When different distances are covered at varying speeds, the direct formula cannot be used. Always apply the base formula: Average Speed = Total Distance ÷ Total Time.

Average Speed for Three Equal Distances

If a vehicle covers three equal parts of a journey at speeds x, y, and z respectively, the overall average speed is calculated as:

3xyz ÷ (xy + yz + zx).

Relative Speed Concept

When two objects move towards each other (opposite directions), their Relative Speed = S1 + S2. When moving in the same direction, Relative Speed = |S1 − S2|.

Q64. Answer: (d) 10%

Given:

First Number = 30% less than the third number

Second Number = 37% less than the third number

Calculation:

Let the third number be 100

=> First number = 100 – 30% of 100

=> First number = 100-30/100× 100=100-30=70

=> Second number = 100 – 37% of 100

=> Second Number = 100-37/100× 100 = 100-37 = 63

=> Difference between first and second number = 70 – 63 = 7

=> Percentage difference between first and second number = 7/70× 100=10%

Hence, the second number is less than first number by 10%.

Q65. Answer: (a) Rs 2,59,200

Given:

Cost Price of a house = Rs 2,00,000

Loss percentage after selling = 10%

Investment rate = 20% p.a.

Duration of investment = 2 years

Concept Used:

Amount = Principal $(1+r/100)^n$

Calculation:

=> Selling price at a loss of 10% = (100-Loss%)/100× CP=90/100× 200000=180000 Rs

=> Now, Principal = 1,80,000 Rs

=> Value of investment after 2 years = 180000 $(1+20/100)^2$

=> Value of investment after 2 years = 180000× 120/100× 120/100=2,59,200 Rs

Hence, the value of investment after 2 years would be Rs 2,59,200

Q66. Answer: (d) tanθ

Concept Used:

tan (a + b) = (tana + tanb)/(1-tana× tanb)

Calculation:

=> tan (π + θ) = (tanπ + tanθ)/(1-tanπ × tanθ)

=> We know the value of tanπ =0,

=> (tanπ + tanθ)/(1-tanπ × tanθ)=(0+tanθ)/(1-0)=tanθ

Hence, the value of tan (π + θ) is tanθ

Q67. Answer: (c) 8000

Given:

Value of C = 8085

Value of C = 22.5% more than B

Value of B = 17.5% less than A

Calculation:

As given, C = 8085

=> Let the value of B be x

=> Value of C = x + 22.5% of x

=> x+22.5/100× x=8085

=> 122.5x=808500

=> x=808500/122.5=6600 Rs

Now, let the value of A be y

=> Value of B = y – 17.5% of y

=> 6600=y-17.5/100× y=82.5y/100

=> y=(6600× 100)/82.5=80× 100 = 8000 Rs

Hence, the value of A is Rs 8,000

Q68. Answer: (c) 500/3 π cm³

Given:

Surface area of sphere = 100π cm²

Concept Used:

Surface Area of Sphere = 4π r²

Volume of Sphere = 4/3π r³

Calculation:

=> Surface Area of spherical volleyball = 100π cm²

=> 4π r²=100π

=> r²=100π/4π=25

=> r=√25=5

=> Now, Volume of air enclosed in the ball = 4/3π × 5³=4/3π × 125

=> Volume of air enclosed in the ball = 500/3π cm³

Hence, the volume of air enclosed in the ball is 500/3π cm³.

Q69. Answer: (a) 10

Concept Used:

BODMAS = Bracket, Of, Division, Multiplication, Addition, Subtraction

Calculation:

=> 9 × 4 of 3 ÷ 2 - 5 × Q + 2 × 3 = 10

=> 9 × 12 ÷ 2 - 5 × Q + 2 × 3 = 10

=> 9 × 6 - 5 × Q + 2 × 3 = 10

=> 54 - 5Q + 6 = 10

=> 5Q = 60 – 10 = 50

=> Q=50/5=10

Hence, the value of Q is 10

Q70. Answer: (a) 54

Given:

Average of four numbers = 48

Average of first three numbers = 42

Average of last three numbers = 50

Concept Used:

Average = Total Sum of Values ÷ Total Number of Values

Calculation:

=> Let the four numbers be a, b, c, d.

=> Average of four numbers = (a+b+c+d)/4

=> (a+b+c+d)/4=48

=> a + b + c + d = 48 × 4 = 192 → (1)

=> Average of first three numbers = (a+b+c)/3

=> (a+b+c)/3=42

=> a + b + c = 42 × 3 = 126 → (2)

=> Average of last three numbers = (b+c+d)/3=50

=> b + c + d = 50 × 3 = 150 → (3)

=> Putting the value of equation (2) into (1),

=> 126 + d = 192
=> d = 192 – 126 = 66
=> Putting the value of equation (3) into (1),
=> a + 150 = 192
=> a = 192 – 150 = 42
=> Average of first and fourth number = (a+d)/2=(66+42)/2
=> Average of first and last number = 108/2=54
Hence, the average of first and last number is 54

Q71. Answer: (a) 81.9

Given:
Weightage of assignments = 28%
Weightage of tests = 22%
Weightage of final exam = 50%
Grade in assignment = 80
Grade in test = 75
Grade in final exam = 86
Calculation:
=> Marks for overall grade from assignments = 28% of 80
=> Marks of overall grade from assignments = 28/100× 80=22.4
=> Marks for overall grade from tests = 22% of 75
=> Marks for overall grade from tests = 22/100× 75=16.5
=> Marks for overall grade from final exam = 50% of 86
=> Marks for overall grade from final exam = 50/100× 86=43
=> Overall grade for the year = 22.4 + 16.5 + 43 = 81.9
Hence, the overall grade for the year is 81.9

Q72. Answer: (c) 43.04 cm²

Given:
Total surface area of hemisphere = 64.57 cm²
Concept Used:
Total Surface Area of Hemisphere = 3π r²
Curved Surface Area of Hemisphere = 2π r²
Calculation:
Total Surface Area of hemisphere = 64.57
=> 3π r²=64.57
We take π =3.14
=> 3× 3.14× r²=64.57
=> r²=64.57/9.42=6.854
=> Curved Surface Area of hemisphere = 2× 3.14× 6.854=43.04 cm²
Hence, the curved surface area of the hemisphere is 43.04 cm².

Q73. Answer: (b) 16

Concept Used:
A quadratic equation ax² + bx + c is a perfect square only when b² – 4ac = 0
Calculation:
=> x4 – 8x2 + m = (x²)² – 8x² + m
=> Let the value of x² be y
=> y² – 8y + m
=> On comparing with the standard equation, we get
=> a = 1, b = –8, c = m
=> For perfect square, b2 – 4ac = 0
=> (–8)² – 4 × 1 × m = 0

=> 64 – 4m = 0

=> m=(-64)/(-4)=16

Hence, the required value of m is 16

Q74. Answer: (b) 2000

Given:

Length of wall = 10 m

Height of wall = 5 m

Width of wall = 20 cm

Dimensions of brick = 25 cm × 20 cm × 10 cm

Concept Used:

Volume of Cuboid = Length × Breadth × Height

Calculation:

Firstly, convert the wall dimensions from m to cm,

=> Length of wall = 10 m = 10 × 100 = 1000 cm

=> Height of wall = 5 m = 5 × 100 = 500 cm

=> Volume of wall = 1000× 500× 20 = 10,000,000 cm^3

=> Volume of each brick = 25 × 20× 10 = 5000 cm^3

=> Number of bricks required to construct the wall = Volume of wall ÷ Volume of each brick

=> So, Number of bricks required = 10000000/5000=2000

Hence, the total number of bricks required to construct the wall is 2000

Q75. Answer: (b) Class VI

Concept Used:

Total Students = Number of Boys + Number of Girls

Calculation:

=> Total number of students in class V = 65 + 58 = 123

=> Total number of students in class VI = 57 + 59 = 116

=> Total number of students in class VII = 60 + 62 = 122

=> Total number of students in class VIII = 61 + 59 = 120

Hence, the least number of students taking boys and girls together is in class VI

Q76. Answer: (b) 2023

The correct answer is 2023.

Key Points

• India will host the 15th Men’s Hockey World Cup in 2023.

• 15^(th) Men's Hockey World Cup will be held in Rourkela and Bhubaneshwar.

• Kalinga Stadium in Bhubaneswar and Birsa Munda International Hockey Stadium in Rourkela will be the venue for the 15^(th) Men's Hockey World cup.

• The state government has constructed the country's largest hockey stadium in Rourkela for the biggest hockey festival.

• The total capacity of the stadium will be 20,000 and once completed, it will be the largest hockey stadium in India.

• This will be the fourth time India will host this event and it will be the second time it will be hosted in Odisha.

Additional Information

• The Men's FIH Hockey World Cup is an international hockey competition organized by the International Hockey Federation (FIH).

• Men's FIH Hockey world cup is held once in 4 years.

• FIH headquarters is in Lausanne, Switzerland.

• Egypt's Seif Ahmed is the acting president of International Hockey Federation.

Q77. Answer: (a) escheat

The correct answer is Escheat.

Key Points

• Income of the state which arises out of the property left by the people without a legal heir is termed Escheat.

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• Escheat refers to the right of a government to require ownership of estate assets or unclaimed property.

• It most ordinarily occurs when an individual dies with no will and no heirs.

• Escheat rights may be granted when assets are unclaimed for a proctored period of your time.

• These situations may also be mentioned to as bona vacantia or just unclaimed property.

• The concept of escheat maintains that property always includes a recognized owner, which might be the state or government if no other claimants to ownership exist or are readily identified.

Additional Information

• A writ is a formal written order issued by a body with administrative or judicial jurisdiction; in modern usage, this body is usually a court.

• “from the new” When a court hears a case de novo, it is deciding the problems without reference to any legal conclusion or assumption made by the previous court to listen to the case.

• A felony is traditionally considered a crime of high seriousness, whereas a misdemeanor is regarded as less serious.

Q78. Answer: (c) tying rakhi

The correct answer is tying rakhi.

Key Points

• In the case Aparna Bhat vs. State of Madhya Pradesh, the apex court held that the use of patriarchal and stereotypical reasoning/language which diminishes sexual crimes and tends to trivialize the survivor, is to be avoided under all circumstances.

• The supreme court was hearing an appeal against certain bail conditions within the case of Vikram vs State of Madhya Pradesh in Madhya Pradesh high court.

• In this case involving a sexual offence against a lady, the bench of Justice Rohit Arya ordered the bail for the accused on the condition that he visits the house of the complainant and requests her to tie the Rakhi band to him “with the promise to guard her to the most effective of his ability for all times to come back.”

• While condemning the MP High Court’s order directing ‘rakhi tying’ as a condition for bail, the judgement explains the term ‘judicial stereotyping’, which refers to the practice of judges perpetuating harmful stereotypes, particularly for lady victims and survivors of violence.

• The Supreme Court put aside the judgment of Madhya Pradesh High Court which prescribed "tying rakhi" as condition for bail.

Additional Information

• The Supreme Court of India is supreme judicial authority of India and is the highest court of the Republic of India under the constitution.

• It is the most foremost senior constitutional court, has the ultimate decision in all told legal matters, and also has the ability of judicial review except for Personal law board.

• The Supreme Court of India consist of the Chief Justice and 33 other Judges appointed by the President of India.

• Supreme Court Judges retire upon attaining the age of 65 years.

• After the retirement of N. V. Ramana who is the current Chief Justice of India, Justice U. U. Lalit will take oath as the New Chief Justice of India on 27th August 2022.

Q79. Answer: (b) Kalka Prasad

The correct answer is Kalka Prasad.

Key Points

• Kalka Prasad is a 19th century exponent of the Kathak dance.

• Kalka Prasad was considered as the pillars of the Lucknow Gharana.

• Kalika Prasad Ji decided to live in Banaras and promoted Kathak-style dance and Thumri singing.

• He was responsible for promoting Kathak to a greater rank of art and beauty.

• Apart from dance, tabla and pakhawaj were the instrumental and expert singers, especially with a deep knowledge of Thumri.

• He was an expert in Abhinaya – expressing it in Thumri songs and performing Shringar Rasa.

Additional Information

• Jatin Goswami is an Indian dancer and choreographer, known as one of the prominent exponents of the classical dance form of Sattriya.

• Sri Babhananda Barbayan is dancer,choreographer, drummer, teacher and artistic-director.

• Krishna Panicker is a famous Mohiniyattam dancer from the 20th century.

Q80. Answer: (c) Kalamandalam Kalyanikutty Amma

The correct answer is Kalamandalam Kalyanikutty Amma.

Key Points

• ‘Kalyani Krishna Fine Arts Academy- Kerala Kalalayam’, founded by Padma shri Kalamandalam Krishnan Nair and Kalamandalam Kalyani Kuttiyamma in 1952.

• Kalamandalam Kalyanikutty Amma was an epoch-making Mohiniyattam dance use from Kerala in southern India.

• A native of Thirunavaya in Malappuram district of the state, she was instrumental in resurrecting Mohiniyattam from a dismal, near-extinct state into a mainstream Indian classical dance.

• Of the 2 books Kalyanikutty Amma has authored, "Mohiniyattam - History and Dance Structure" is taken into account as an elaborate and only authentic documentation on Mohiniyattam.

• Kalyanikutty Amma has also been honored with the Kalidasa Samman in 1997–1998.

• Kalyanikutty Amma passed the art of Mohiniyattam beyond India.

Additional Information

• Pallavi Krishnan is a leading exponent of Mohiniyattam. She is known for her efforts to promote and preserve this style of Indian classical dance as a living tradition.

• Rema Shrikant is an outstanding Bharatanatyam dancer, Choreographer and teacher of Vadodara.

• Sunanda Nair is an Indian dancer trained in Mohiniyattam.

Q81. Answer: (c) Sir JJ Thomson

The correct answer is Sir JJ Thomson.

Key Points

• The plum pudding model is one of several historical scientific models of the atom.

• Sir JJ Thomson proposed the 'Plum pudding' theory of the divisible atom in which negatively charged electrons were scattered in a lump of positive charge like a raisin in plum pudding.

• The plum pudding model has electrons surrounded by a volume of positive charge, like negatively charged "plums" embedded in a positively charged "pudding".

• It is believed that atoms contain negatively charged subatomic particles.

• Thomson called them "corpuscles" (particles), but they were more commonly called "electrons", the name which G. J. Stoney had coined for the "fundamental unit quantity of electricity" in 1891.

• It had also been believed for many years that atoms have no net electric charge.

• Thomson proposed that atoms must also contain some positive charge that cancels out the negative charge of its electrons.

Additional Information

• Robert Andrews Millikan was an American experimental physicist honored with the Nobel Prize for Physics in 1923 for the measurement of the elementary electric charge and for his work on the photoelectric effect.

• Ernest Rutherford, was a New Zealand physicist who is known as the father of nuclear physics.

• Antoine Henri Becquerel was a French engineer, physicist, Nobel laureate, and the first person to discover evidence of radioactivity.

Q82. Answer: (d) Over the Mediterranean Sea

The correct answer is Over the Mediterranean Sea.

Key Points

• In India, from Mediterranean Sea, the tropical cyclones, enters the Indian subcontinent from the west and the northwest during the winter months, originate.

• The increase within the prevailing night temperature generally indicates an advance with the arrival of these cyclones disturbances.

• The frequency, intensity and coastal impact of cyclones varies from region to region.

• The frequency of tropical cyclones is the lowest in the north Indian Ocean regions of the Bay of Bengal and the Arabian Sea, they are also of moderate intensities.

• Tropical cyclones originate from the Bay of Bengal and the Indian ocean.

• Most of these cyclones are very destructive due to high wind velocity and torrential rain that come along with it.

Additional Information

• The Gulf of Khambhat, known as the Gulf of Cambay, is a bay on the Arabian Sea coast of India, bordering the state of Gujarat just north of Mumbai and Diu Island.

• The Arabian Sea is a region of the northern Indian Ocean bounded on the north by Pakistan, Iran and the Gulf of Oman, on the west by the Gulf of Aden, Guardafui Channel and the Arabian Peninsula, on the southeast by the Laccadive Sea and the Maldives, on the southwest by Somalia, and on the east by India.

• The Gulf of Mannar is a large shallow bay forming part of the Laccadive Sea in the Indian Ocean with an average depth of 5.8 m. It lies between the southeastern tip of India and the west coast of Sri Lanka, in the Coromandel Coast region

Q83. Answer: (d) Virat Kohli

The correct answer is Virat Kohli.

Key Points

• Virat Kohli was named as 'Wisden Almanack's ODI Cricketer of 2010s in the 2021 edition of the Wisden Cricketers' Almanack in April 2021.

• During the overall period, nobody has scored more runs than Virat Kohli's 11556; no batter has notched up more hundreds and more fifties than him.

• He hit his maiden World Cup hundred in his debut game in 2011 and won the trophy for India.

• Virat Kohli top-scored in the 2013 Champions Trophy final against England.

• In the next two World Cups, he had major contributions for India to reach the semi-final.

• He has cemented his name as the greatest run-chaser in the game with over 6000 runs batting second at 69.08; that average catapults to 95.64 in victories while chasing.

Additional Information

• Sachin Tendulkar is the ODI Cricketer of the 1990s.

• Kapil Dev was named as the ODI Cricketer for the 1980s.

• England all-rounder Ben Stokes is 'Leading Cricketer of the Year'.

• Australia's Beth Mooney is 'Leading Women's Cricketer in the World'.

• West Indies all-rounder Kieron Pollard was adjudged the 'Leading T20 Cricketer in the World'.

• Jason Holder, Mohammed Rizwan, Dom Sibley, Zak Crawley, and Darren Stevens have been awarded the Wisden Cricketers of the Year 2021.

Q84. Answer: (a) Australia

The correct answer is Australia.

Key Points

• Australia was crowned the winners of the 7th ICC T20 World Cup.

• It was the second time that Australia had qualified for the final of the T20 World Cup, after reaching the final of the 2010 tournament.

• In the final, Australia beat New Zealand by 8 wickets to win their first T20 World Cup.

• Mitchell Marsh was named the Player of the Match,with David Warner being named the Player of the Tournament.

• Originally the event was scheduled to be held in Australia from 18 October to 15 November 2020, but in July 2020, the International Cricket Council (ICC) postponed the tournament, due to the COVID-19 pandemic.

• In August 2020, the ICC confirmed that India would host the 2021 tournament as planned, with Australia being named as the host for the succeeding 2022 tournament.

• In June 2021, the ICC announced that the tournament had been shifted to the United Arab Emirates.

Additional Information

• The International Cricket Council (ICC) is the world governing body of cricket.

• It was founded as the Imperial Cricket Conference in 1909 by representatives from Australia, England and South Africa.

• Greg Barclay is the chairman of International Cricket Council.

• ICC is headquartered in Dubai, UAE.

Q85. Answer: (c) Antoine Lavoisier

The correct answer is Antoine Lavoisier.

Key Points

• In 1787, four prominent French chemists – Louis Bernard Guyton de Morveau, Antoine-Laurent Lavoisier, Claude Louis Berthollet, and Antoine François Fourcroy – published a book with the title Méthode de nomenclature chimique.

• In this book, they proposed a new nomenclature of chemical substances, explicated their principles of methodically constructing chemical names, and further presented a taxonomic table of chemical substances.

• Historians of chemistry have unanimously praised the Method as a key document of eighteenth-century chemistry, particularly of Lavoisier's epoch.

• Since the nomenclatural and the taxonomic proposals of the Méthode were constructed in accordance with Lavoisier's antiphlogistic chemical system, most historians have regarded it as a fruit and manifestation of this chemical system.

Additional Information

• Jacob Berzelius was one of the founders of modern chemistry. He measured accurate atomic weights for the elements, which led to confirmation of Dalton's Atomic Theory and was the basis of Mendeleev's periodic table.

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• Georg Brandt was a Swedish chemist and mineralogist who discovered cobalt. He was the first person to discover a metal unknown in ancient times.

• Friedrich Wilhelm Ostwald was a Baltic German chemist and philosopher. Ostwald is credited with being one of the founders of the field of physical chemistry, with Jacobus Henricus van 't Hoff, Walther Nernst, and Svante Arrhenius

Q86. Answer: (b) Madhya Pradesh

The correct answer is Madhya Pradesh.

Key Points

• The Lata Mangeshkar Award is a national-level award instituted to honor works in the field of music.

• Many state governments of India present awards with her name.

• The Madhya Pradesh government started this award in 1984.

• Noted singer Suman Kalyanpur and music composer Kuldeep Singh were awarded the Madhya Pradesh government's National Lata Mangeshkar Samman.

• While Suman Kalyanpur got the award for the year 2017, Kuldeep Singh received it for 2018.

• The award carries a cash prize of Rs 2 lakh and a citation.

• Music legends Naushad, Kishore Kumar, and Asha Bhosle are among the earlier recipients of the National Lata Mangeshkar Samman.

Additional Information

• Lata Mangeshkar was an Indian playback singer and music composer.

• She is considered to have been one of the greatest and most influential singers in India.

• Her contribution to the Indian music industry in a career spanning eight decades gained her honorific titles such as the "Queen of Melody", "Nightingale of India", and "Voice of the Millennium".

• Lata Mangeshkar won several awards and honours, including the Bharat Ratna, India's highest civilian award, Padma Bhushan, Padma Vibhushan, Zee Cine Award for Lifetime Achievements, Dadasaheb Phalke Award, Maharashtra Bhushan Award, NTR National Award, Legion of Honour, ANR National Award, three National Film Awards, and 15 Bengal Film Journalists' Association Awards.

• In 2009, she was awarded the title of Officer of the French Legion of Honour, France's highest order.

Q87. Answer: (d) Sadhir

The correct answer is Sadhir.

Key Points

• In the year 2022, Govt of India honored Muthukannammal by conferring the Padma Shri award for her contributions to the Sadhir dance form.

• R Muthukannammal is a seventh-generation veteran Sadhir dancer from the Indian State of Tamil Nadu.

• She is the only surviving person among the 32 Devadasis who served the deity at the Viralimalai Murugan temple and she is the last woman to have the ceremony pottukkattutal of dedicating oneself to God performed at the Viralimalai temple.

• The dance form Sadir, variously called Sadiraattam or Parathaiyar Aattam or Thevarattam, is a classical Indian dance which was reinvented, modified, and rechristened as Bharatanatyam through the efforts of E Krishna Iyer and Rukmini Devi Arundale in 1932.

• However, Muthukannammal has chosen to call her art form Sadhir, making her the only Sadir exponent today.

Additional Information

• Jhora dance belongs to the state of Uttarakhand. It originated in the Kumaon region. This magical folk dance form binds people of all castes.

• The Khor dance is a variant of the Jhumar dance and is exclusively performed by women. This dance is very popular in certain parts of central Haryana.

• Daph dance is also a seasonal dance. But this dance is performed in Haryana when the crop is ready to get harvested.

Q88. Answer: (d) producers

The correct answer is producers.

Key Points

• A pyramid of biomass is a graphical representation that shows the population at each level of the food chain.

• Producers occupy the base with the highest biomass.

• The relationship between numbers, biomass, energy, or bio productivity of an ecosystem can be represented by a pyramid known as the ecological pyramid.

• The trophic level is the place that a living organism occupies in a food chain.

• In a biomass pyramid, producers are at the base, followed by herbivores and then carnivores at the top.

• The pyramid of biomass shows the flow of energy from producers to consumers.

• 10 percent of the energy gets transferred to the next trophic level and the rest is either utilized for metabolic processes or excreted out.

Additional Information

• Carnivores that eat herbivores are called secondary consumers.

• A separate trophic level, the decomposers or transformers, consists of organisms such as bacteria and fungi that break down dead organisms and waste materials into nutrients usable by the producers.

• Primary consumers make up the second trophic level. They are also called herbivores.

Q89. Answer: (b) Dr. Narthaki Natraj

The correct answer is Dr. Narthaki Natraj.

Key Points

• Narthaki Nataraj is a Bharatanatyam dancer. In 2019, she was awarded the Padma Shri, making her the first transgender woman to be awarded India's fourth-highest civilian award.

• Narthaki Nataraj was awarded with the Padma Shri.

• She is the first transgender to be felicitated with the award.

• Narthaki Nataraj is active in preserving the compositions of Kittappa Pillai’s ancestors, the Tanjore Quartets.

• Narthaki has also started her own school, Valliambalam School of Dance.

• The school has some branches in the US, UK, and Canada.

• She is a Bharatanatyam exponent and specialises in the Thanjavur-based Nayaki Bhava tradition.

Additional Information

• Pandit Birju Maharaj was an Indian dancer, composer, singer, and exponent of the Lucknow "Kalka-Bindadin" Gharana of Kathak dance in India.

• 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.

• Guru Bipin Singh was a director, choreographer, and teacher of Manipuri dance.

Q90. Answer: (d) Chloroethane

The correct answer is Chloroethane.

Key Points

• Chloroethane with the chemical formula CH3CH2Cl is used as a blowing agent in foamed plastics.

• It was used as a promoter chemical in the aluminum chloride catalyzed process to produce ethylbenzene. Now, it is not widely used in any of these roles.

• Foam products are manufactured with chemical blowing agents that expand the plastic matrix before it solidifies.

• Chloroethane is produced by hydrochlorination of ethylene: $C_2H_4 + HCl \rightarrow C_2H_5Cl$.

• Earlier chloroethane has been produced from ethanol and hydrochloric acid, from ethane and chlorine, or from ethanol and phosphorus trichloride, but these methods are no longer economical

Additional Information

• The chemical formula of 3-Chlorohexane is $C_6H_{13}Cl$.

• n-Propyl chloride (also 1-propyl chloride or 1-chloropropane) is a colorless, flammable chemical compound. It has the chemical formula C_3H_7Cl.

• Chloromethane, also called methyl chloride, Refrigerant-40, R-40 or HCC 40, is an organic compound with the chemical formula CH_3Cl.

Q91. Answer: (d) Rahul Dev Burman

The correct answer is Rahul Dev Burman.

Key Points

• Rahul Dev Burman was popularly known as Pancham Da.

• Rahul Dev Burman was an Indian music director. From the 1960s to the 1990s, Burman composed musical scores for 331 films.

• Rahul Dev Burman did major work with his wife, Asha Bhosle, and Kishore Kumar and scored many of the songs that made these singers famous.

• He also worked extensively and scored approximately 331 songs including some of the most memorable numbers in his career for his sister-in-law, Lata Mangeshkar.

• Nicknamed Pancham, he was the only son of the composer Sachin Dev Burman.

• Rahul Dev Burman laid the foundation for numerous Hindi film music directors to pave the path for the future of music in Hindi language cinema.

• On the anniversary of his 77th birthday on 27 June 2016, Google had a Doodle of R.D Burman on its Indian Home Page.

Additional Information

• Salil Chowdhury was an Indian songwriter, music director, lyricist, writer, and poet who predominantly composed for Bengali, Hindi, and Malayalam films. He composed music for films in 13 languages.

• K. Vijaya Bhaskar is an Indian film director who works mainly in the Telugu film industry. He won the National Film Award for Best Feature Film in Telugu for Nuvve Kavali.

• Omkar Prasad Nayyar was an Indian film music composer, singer-songwriter, music producer, and musician. He is considered to be one of the most rhythmic and melodious music directors in the Hindi film industry.

Q92. Answer: (b) Otto von Guericke

The correct answer is Otto von Guericke.

Key Points

• Otto von Guericke was famous for the invention of the vacuum pump in the 17th century and also pioneered the concept of the absolute vacuum of space, measuring the weight of air and using air pressure to predict the weather.

• In 1650 von Guericke invented the vacuum pump. His model consisted of a piston and an air gun cylinder with two-way flaps designed to pull air out of whatever vessel it was connected to, and used to investigate the properties of the vacuum in many experiments.

• A particular and repeated target of his criticism is the manner in which the "nature abhors a vacuum" principle had migrated from simply a matter of experiment to a high principle of physics which could be invoked to explain phenomena such as suction but which itself was above question.

• Von Guericke was a very pious man in the Dionysian tradition and attributed the vacuum of space to the creations and designs of an infinite divinity.

• Otto von Guericke showed that substances were not pulled by a vacuum, but were pushed by the pressure of the surrounding fluids.

Additional Information

• Sir John Douglas Cockcroft was a British physicist who shared with Ernest Walton the Nobel Prize in Physics in 1951 for splitting the atomic nucleus and was instrumental in the development of nuclear power.

• Enrico Fermi was an Italian physicist and the creator of the world's first nuclear reactor, the Chicago Pile-1. He has been called the "architect of the nuclear age" and the "architect of the atomic bomb".

• Valerianus Magnus was an Italian Capuchin, missionary preacher in Central Europe, polemicist and author.

Q93. Answer: (c) Brown algae

The correct answer is Brown algae.

Key Points

• Brown algae are the common name of the members of the family Phaeophyceae.

• Brown algae are a large group of multicellular algae within the Northern Hemisphere.

• Brown algae are the major seaweeds of the temperate and polar regions.

• They are present on rocky shores all around cooler areas of the world.

• Most brown algae live in marine environments, where they play an important role both as food and as potential habitats.

• Macrocystis, a kelp of the order Laminariales, may reach 60 m (200 ft) in length and forms prominent underwater kelp forests..

Additional Information

• The green algae are a group consisting of the Prasinodermophyta and its unnamed sister which contains the Chlorophyta and Charophyta/Streptophyta.

• Red algae, or Rhodophyta, are one of the oldest groups of eukaryotic algae. The Rhodophyta also comprises one of the largest phyla of algae, containing over 7,000 currently recognized species with taxonomic revisions ongoing.

• Blue-green algae, also called cyanobacteria, any of a large, heterogeneous group of prokaryotic, principally photosynthetic organisms.

Q94. Answer: (c) Satyajit Ray

The correct answer is Satyajit Ray.

Key Points

• ‘Jakhan Choto Chilam’ is an autobiography written in the Bengali language by Satyajit Ray.

• In this book, Satyajit Ray discusses his childhood days in the city of Kolkata (then Calcutta), India from the eyes of an everyday boy.

• Satyajit Ray was an Indian director, screenwriter, documentary filmmaker, author, essayist, lyricist, magazine editor, illustrator, calligrapher, and music composer.

• Satyajit Ray received many major awards in his career, including 36 Indian National Film Awards, a Golden Lion, a Golden Bear, 2 Silver Bears, many additional awards at international film festivals and ceremonies, and an Academy Honorary Award in 1992.

• In 1978, he was awarded an honorary degree by Oxford University.

• In 1992, Government of India honored him the Bharat Ratna Award.

Additional Information

• Rituparno Ghosh was an Indian film director, actor, writer, and lyricist. After pursuing a degree in economics, he started his career as a creative artist at an advertising agency.

• Mrinal Sen was an Indian film director of Bengali heritage and a nominated Member of the Indian parliament.

• Tapan Sinha was one of the most prominent Indian film directors of his time forming a legendary quartet with Satyajit Ray, Ritwik Ghatak, and Mrinal Sen.

Q95. Answer: (d) Ram Sahay Pandey

The correct answer is Ram Sahay Pandey.

Key Points

• Ram Sahay Pandey was awarded the Padma Shri for his contribution to Bundeli Folk Dance in 2022.

• Ram Sahay Panday is a Rai dancer from Madhya Pradesh's sagar district.

• The Rai dance was traditionally associated with the Bedia community.

• Though he was not the member of the community he devoted his whole life practicing and performing the Rai dance and to secure acceptance and respectability for the dance form.

• His efforts helped him obtain national and international recognition of Rai dance form.

• The dance form Raai (or Rai) is basically a folk dance of the Bundelkhand region.

• In the year 2022, Govt of India honoured Ram Sahay Panday by conferring the Padma Shri award for his contributions to art.

Additional Information

• Ravi Shankar Sharma, often referred to mononymously as Ravi, was an Indian music director, who composed music for several Hindi and Malayalam films.

• Dinesh Kumar Barkesia is an Indian choreographer working with South Indian films, including Tamil films. He won the 2011 National Film Award for Best Choreography for his work in Aadukalam.

Q96. Answer: (a) Sitar

The correct answer is Sitar.

Key Points

• Pandit Ravi Shankar was an Indian musician and composer.

• He was known for popularizing the Indian classical instrument Sitar all over the world.

• He became the world's best-known exponent of North Indian classical music in the 2^(nd) half of the 20th century.

• In 1999, Pandit Ravi Shankar was awarded India's highest civilian honour, the Bharat Ratna.

• He even collaborated with the famous band ‘The Beatles’.

• Pandit Ravi Shankar was honored with three highest Indian civilian awards.

• The song ‘Saare Jahan Se Acha’ was set to tune by Ravi Shankar.

Additional Information

• The sarangi is a bowed, short-necked string instrument played in traditional music from India – Punjabi folk music, Rajasthani folk music, and Boro folk music – also in Pakistan and Bangladesh.

• The sarod is a stringed instrument, used mainly in Hindustani music on the Indian subcontinent. Along with the sitar, it is among the most popular and prominent instruments.

• A tabla is a pair of twin hand drums from the Indian subcontinent. Since the 18th century, it has been the principal percussion instrument in Hindustani classical music, where it may be played solo, as an accompaniment with other instruments and vocals, and as a part of larger ensembles.

Q97. Answer: (b) 2017

The correct answer is 2017.

Key Points

• In 2017, the Fifteenth Finance Commission was constituted.

• The Fifteenth Finance Commission is an Indian Finance Commission constituted in November 2017 and is to give

recommendations for devolution of taxes and other fiscal matters for five fiscal years.

• The commission was chaired by Nand Kishore Singh, a senior member of the Bharatiya Janata Party, with its full-time members Ajay Narayan Jha, Ashok Lahiri, and Anoop Singh.

• The commission also has a part-time member in Ramesh Chand.

• Shaktikanta Das served as a member of the commission from November 2017 to December 2018.

• The Fifteenth Finance Commission was constituted by the Government of India.

Additional Information

• The Finance Commissions are commissions periodically constituted by the President of India under Article 280 of the Indian Constitution to define the financial relations between the central government of India and the individual state governments.

• The First Commission was established in 1951 under The Finance Commission Act, 1951.

• Fifteen Finance Commissions have been constituted since the promulgation of the Indian Constitution in 1950.

• Individual commissions operate under the terms of reference which are different for every commission, and they define the terms of qualification, appointment, and disqualification, the term, eligibility, and powers of the Finance Commission.

• As per the constitution, the commission is appointed every five years and consists of a chairman and four other members.

Q98. Answer: (b) 49 kg

The correct answer is 49 Kg.

Key Points

• Mirabai Chanu won a silver medal in the women's 49 kg weightlifting competition to open India's counter at the Tokyo 2020 Olympics.

• The Manipuri athlete lifted a total weight of 202 kg to win the medal.

• Mirabai Chanu picked a total of 87 kg in the snatch part of the event and ended with a lift of 115 kg in clean and jerk.

• She is the second Indian weightlifter after Karnam Malleswari to win an Olympic medal.

• Mirabai Chanu has been a world champion in the past when she won the gold medal in the 48 kg category in Anaheim.

• She is the reigning Commonwealth Games gold medallist in the 48kg category.

Additional Information

• The 2020 Summer Olympics also known as Tokyo 2020, was an international multi-sport event held from 23 July to 8 August 2021 in Tokyo, Japan.

• India has won 7 medals in Tokyo Olympics 2021 for far. These 7 medals include 1 Gold Medal, 2 Silver medals and 4 Bronze medals.

• Neeraj Chopra became only the second Indian individual Olympic champion.

• PV Sindhu won her second Olympic medal while the men's hockey team won an Olympic medal after 41 years.

Q99. Answer: (d) The Heart Has its Reasons

The correct answer is The Heart Has its Reasons.

Key Points

• The Heart Has its Reasons by Krishna Sobti was originally published as ‘Dilo-Danish’.

• In 2005, Dil-o-Danish, translated into The Heart Has Its Reasons in English by Reema Anand and Meenakshi Swami of Katha Books, won the Crossword Award in the Indian Language Fiction Translation category.

• Krishna Sobti's books have been translated to Indian and foreign languages.

• Krishna Sobti was an Indian Hindi-language fiction writer and essayist.

• She won the Sahitya Akademi Award in 1980 for her novel Zindaginama and in 1996, was awarded the Sahitya Akademi Fellowship, the highest award of the Akademi.

• she received the Jnanpith Award for her contribution to Indian literature in 2017.

Additional Information

• Krishna Sobti's pathbreaking first novel, Memory's Daughter follows in young Pasho's footsteps as she is bought and sold like cattle in the strife-torn climate of the Afghan and Anglo-Sikh wars of the 19th century Punjab.

• The music of solitude written by Krishna sobti is a collection of musings and ramblings about life, with no definitive start or end.

• A Gujarat Here, A Gujarat There written by Krishna Sobti is not only a powerful tale of Partition loss and dislocation but also charts the odyssey of a spirited young woman determined to build a new identity for herself on her own terms.

Q100. Answer: (a) Sahitya Akademi Award

The correct answer is Sahitya Akademi Award.

Key Points

• Krishna Sobti was an Indian Hindi-language fiction writer and essayist.

• She won the Sahitya Akademi Award in 1980 for her novel Zindaginama and in 1996, was awarded the Sahitya Akademi Fellowship.

• She also received the Jnanpith Award for her contribution to Indian literature.

• Her publications have been translated into multiple Indian and foreign languages such as Swedish, Russian and English.

• Krishna Sobti is best known for her 1966 novel Mitro Marajani, an unapologetic portrayal of a married woman's sexuality.

• Krishna Sobti was also the recipient of the first Katha Chudamani Award, in 1999, for Lifetime Literary Achievement, apart from winning the Shiromani Award in 1981, Hindi Academy Award in 1982, Shalaka Award of the Hindi Academy Delhi, and in 2008, her novel Samay Sargam was selected for Vyas Samman, instituted by the K. K. Birla Foundation.

Additional Information

• The Sahitya Akademi Award is a literary honour in India, which the Sahitya Akademi, India's National Academy of Letters, annually confers on writers of the most outstanding books of literary merit published in any of the 24 major Indian languages.

• The Saraswati Samman is an annual award for outstanding prose or poetry literary works in any of the 22 languages of India listed in Schedule VIII of the Constitution of India. It is named after an Indian goddess of knowledge.

• The Jnanpith Award is the oldest and the highest Indian literary award presented annually by the Bharatiya Jnanpith to an author for their "outstanding contribution towards literature.

• The Vyas Samman is a literary award in India, first awarded in 1991. It is awarded annually by the K.K. Birla Foundation and includes a cash payout of Rs 4,00,000.

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