SSC CHSL Tier-1 2021: Official Paper (Held On : 31 May 2022 Shift 3) (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 meaning of the given idiom.

Break a leg.

(a) Speak directly
(b) Work long hours
(c) Wish someone good luck
(d) Wish someone bad luck

Q2. Select the most appropriate meaning of the given idiom.

Miss the boat

(a) Miss the goal of life
(b) Miss the person
(c) Miss an opportunity
(d) Miss the journey

Q3. Select the most appropriate ANTONYM of the given word

Comely

(a) Grandiloquent
(b) Gorgeous
(c) Gregarious
(d) Grotesque

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

Arraign

(a) Arrive
(b) Prosecute
(c) Persecute
(d) Arrange

Q5. In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Many times _____ starts with the creative _____ and the enduring passion of a single individual.

(a) tradition, lethargy
(b) stagnation, determination
(c) renovation, dullness
(d) innovation, spark

Q6. Select the option that expresses the given sentence in passive voice.

Alfred's doctor treated Rohan for his fever.

(a) Rohan will be treated by Alfred's doctor for his fever.
(b) Rohan has been treated by Alfred's doctor for his fever.
(c) Rohan was treats by Alfred's doctor for his fever.
(d) Rohan was treated by Alfred's doctor for his fever.

Q7. 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. In 1895, a man named Birsa was seen roaming the forests and villages of Chottanagpur in Jharkhand.

B. Soon thousands began following Birsa, believing that he was God and had come to solve all their problems.

C. Birsa himself declared that God had appointed him to save his people from trouble, and free them from the slavery of 'dikus'.

D. People said he had miraculous powers – he could cure all diseases and multiply grain.

(a) CABD
(b) BADC
(c) ADCB
(d) DCBA

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

The flyer for the international symposium is being sent by students to institutes all over the country.

(a) Students are being sent the flyer for the international symposium to institutes all over the country.
(b) The flyer for the international symposium is sent by students to institutes all over the country.
(c) Students are sending the flyer for the international symposium to institutes all over the country.
(d) The flyer is sending the students to institutes all over the country for the international symposium.

Q9. The following sentence contains a grammatical error. Select the option that correctly rectifies the error.

In its August 1992 issue, the highly respected British Journal of Addiction describe three unusual cases of carrot dependence.

(a) In its August 1992 issue, the highly respected British Journal of Addiction was describing three unusual cases of carrot dependence.
(b) In its August 1992 issue, the highly respected British Journal of Addiction describing three unusual cases of carrot dependence.
(c) In its August 1992 issue, the highly respected British Journal of Addiction described three unusual cases of carrot dependence.
(d) In its August 1992 issue, the highly respected British Journal of Addiction has been described three British Journal of Addiction has been described three

Q10. Select the most appropriate meaning of the given idiom.

On cloud nine

(a) Good number
(b) Travel by airplane
(c) Extremely happy
(d) Heavy rain

Q11. Select the most appropriate ANTONYM of the given word.

Reinforce

(a) Validate
(b) Weaken
(c) Diverge
(d) Determine

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Q12. Select the INCORRECTLY spelt word.

(a) Quear
(b) Antibodies
(c) Brag
(d) Rascal

Q13. Select the option that can be used as a one-word substitute for the given group of words.

To dispute angrily

(a) Wrench
(b) Wreck
(c) Wrangle
(d) Wrack

Q14. Select the most appropriate ANTONYM of the underlined word in the following sentence.

There are some technologies available today that make a notebook dispensable.

(a) acceptable
(b) urgent
(c) essential
(d) popular

Q15. Select the INCORRECTLY spelt word.

(a) Tactile
(b) Concentratte
(c) Domicile
(d) Customary

Q16. Select the most appropriate option to fill in the blank.

She was _____ right nor wrong.

(a) not
(b) neither
(c) whether
(d) either

Q17. Select the option that will improve the underlined part of the given sentence.

The children opens the door silently, yesterday.

(a) will open the door
(b) open the door
(c) opened the door
(d) Will have opened the door

Q18. Select the most appropriate synonym of the given word.

Admire

(a) Neglect
(b) Admonish
(c) Forget
(d) Appreciate

Q19. Select the option that can be used as a one-word substitute for the underlined group of words.

Nisha participates in almost every activity and in all functions held in the school as she has many skills.

(a) Vulnerable
(b) Innovative
(c) Versatile
(d) Fragile

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Q20. Which word in the given sentence is the ANTONYM of – Exonerate?

It was difficult to convict him of the falsity of his beliefs.

(a) falsity
(b) convict
(c) beliefs
(d) difficult

Directions

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

The Hall of Dharma was in a circular building, built of stone and mortar, with a (1)_____ dome. The delicate (2)____ of the dome was believed to represent the feminine while the typical temple spire represented the masculine. The hall was also (3)____ All rishis sat as (4)____ without a moderating 'head', debating issues openly and without fear, freedom of (5)_____at its zenith.

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

(a) massive
(b) passive
(c) intrusive
(d) conclusive

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

(a) harshness
(b) masculinity
(c) vengeance
(d) elegance

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

(a) perpendicular
(b) peculiar
(c) vertical
(d) circular

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

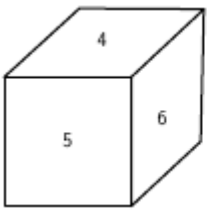
(a) crossed
(b) unequal
(c) equals
(d) conical

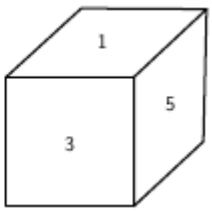
Q25. Select the most appropriate option to fill in blank number 5.

(a) depression
(b) expression
(c) running
(d) inspiration

GENERAL INTELLIGENCE

Q26. Two different positions of the same dice are shown, the six faces of which are numbered from 1 to 6 select the number that will be on the face opposite to the one showing '1'.





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

Q27. Which letter-cluster will replace the question mark (?) to complete the given series?

TVEQ, PBWA, ?, HNGU, DTYE

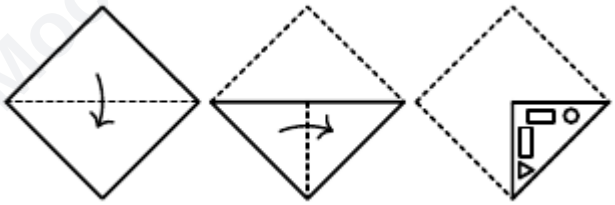
(a) IEFN
(b) LHOK
(c) MWJK
(d) RUDA

Q28. 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.

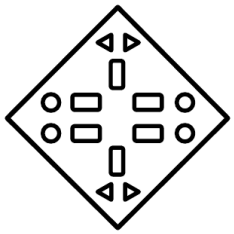
Tis : Sit :: Tip : Pit :: Ten : ?

(a) Ken
(b) Net
(c) Set
(d) Pen

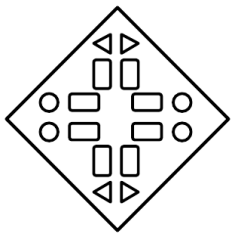
Q29. A paper is folded and cut as shown below. How will it appear when unfolded?



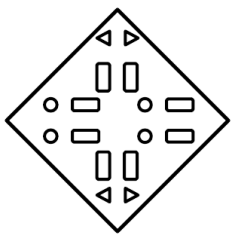
(a)



(b)

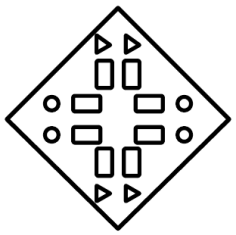


(c)



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(d)



Q30. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term

9 : 126 :: ? : 238 :: 21 : 294

(a) 18
(b) 28
(c) 22
(d) 17

Q31. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1.Absorption
2.Absolutely
3.Abduct
4.Abbreviation
5.Accurate

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

Q32. Which of the following numbers will replace the question mark (?) in the given series?

229, 233, 239, 241, 251, ?

(a) 257
(b) 263
(c) 261
(d) 259

Q33. 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.

SIMPLE : ISNKEL:: PUBLIC : UPYOCI:: MINUTE:?

(a) NIMTUE
(b) NIMETU
(c) IMUNET
(d) IMMFET

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

First row- 6, 8, 34

Second row- 3, 2, 10

Third row- 11, 18, ?

(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) 47
(b) 84
(c) 74

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(d) 48

Q35. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1.Draft
2.Drake
3.Drain
4.Drape
5.Dragon

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

Q36. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

14 * 5 * 55 * 74 * 12 * 4 * 3

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

Q37. In a certain code language, “CASTLE” is written as “BYPUNH”, and “DEMAND” is written as “CCJBPG”. How will “EITHER” be written in that language?

(a) DGQIHU
(b) DGQIGU
(c) DGQJGU
(d) DGPIGU

Q38. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.



(a)



(b)



(c)



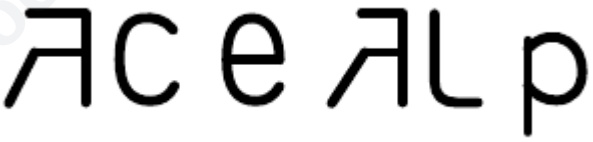
(d)



Q39. Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.



(a)



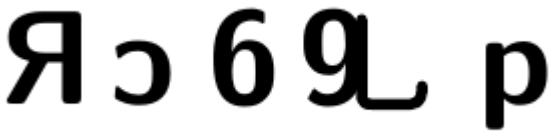
(b)



(c)



(d)



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

5, 6, ?, 45, 184, 925

(a) 12
(b) 15
(c) 14
(d) 18

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

(360, 12, 60)

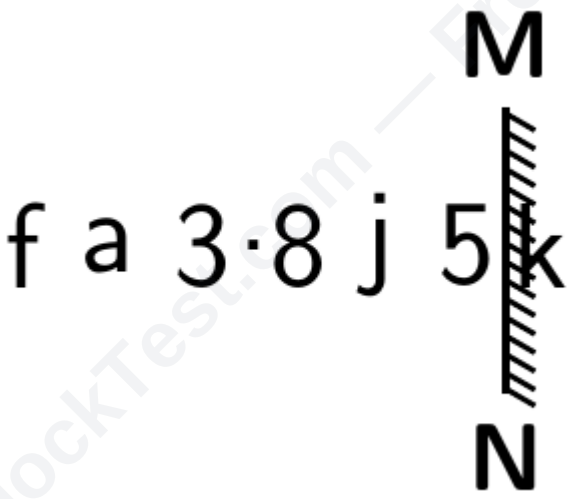
(a) (362, 13, 54)

(b) (342, 19, 36)

(c) (369, 15, 78)

(d) (398, 16, 34)

Q42. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



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Q43. Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some apartments are bungalows.

Some bungalows are flats.

Conclusions:

I. Some apartments are flats.

II. Some flats are bungalows.

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

Q44. Which of the following numbers will replace the question mark (?) in the given series?

6, 36, 41, ?, 167, 334

(a) 125
(b) 153
(c) 160
(d) 164

Q45. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

16 * 4 * 8 * 10 * 2 * 52

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

Q46. Which of the following numbers will replace the question mark (?) in the given series?

13, 17, 24, 36, 55, 85, 128, 188, ?

(a) 267
(b) 274
(c) 276
(d) 247

Q47. Which letter cluster will replace the question mark (?) to complete the given series?

KGCJ, JEZF, ?, HATX, GYQT

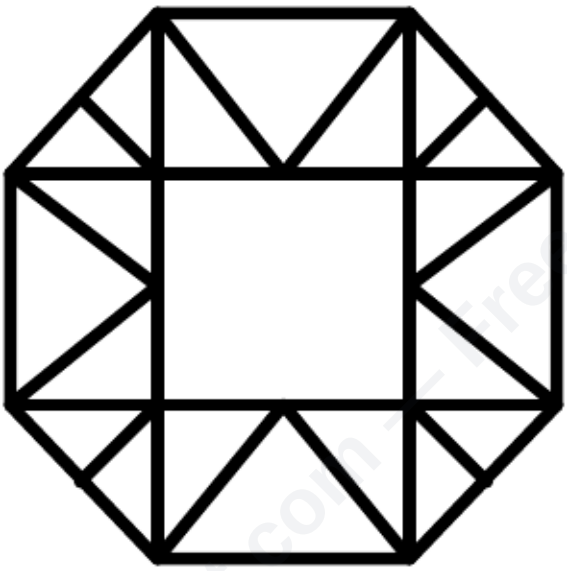
(a) WBCI
(b) WBCJ
(c) ICWB
(d) ICWA

Q48. In a certain code language, 'DIVIDE' is coded as ‘7 17 43 17 7 9’ and ‘SUBTRACT’ is coded as ’37 41 3 39 35 1 5 39’. How will 'ADDITION' be coded in that language?

(a) 1 6 7 17 29 17 29 27
(b) 1 7 2 17 22 17 29 27
(c) 1 7 7 15 39 17 29 29
(d) 1 7 7 17 39 17 29 27

Q49. How many triangles are there in the given figure?

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(a) 24
(b) 36
(c) 32
(d) 30

Q50. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number-pairs EXCEPT one. Find that odd number-pair.

(a) 64 : 6
(b) 36 : 5
(c) 169 : 11
(d) 196 : 12

QUANTITATIVE APTITUDE

Q51. Δ ABC is similar to Δ PQR. The area of Δ ABC is 64 cm², and the area of Δ PQR is 121 cm². If QR = 15.4 cm, what is the length of BC?

(a) 13.2 cm
(b) 15.4 cm
(c) 11.2 cm
(d) 12.3 cm

Q52. The following table represents the weightage of different decision features of an automobile. With the help of this information, calculate the weighted average.

Features	Rating	weightage
Safety	8/10	40%
Comfort	6/10	20%
Fuel mileage	5/10	30%
Exterior looks	8/10	10%

(a) 0.57
(b) 0.76
(c) 0.67
(d) 0.5

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Q53. The ratio of time taken by Anamika and Bani to complete a work is 1 : 3, respectively. Therefore, Anamika is able to finish a job in 40 days less than Bani. If they work together, they can complete the work in _____ days.

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

Q54. Simplify : 3ab × (a + b)^(-1) × (a^(-1) + b^(-1))

(a) 1over(a+b)
(b) 1
(c) (a + b)
(d) 3

Q55. If x + 1over x = 5, then the value of 3xover2x² +2-5x will be ___.

(a) 5over2
(b) 2over5
(c) 3over5
(d) 5over3

Q56. If a sum on compound interest (compounded yearly) becomes three times in 4 years, then with the same interest rate, the sum will become 81 times in:

(a) 12 years
(b) 18 years
(c) 15 years
(d) 16 years

Q57. Simplify 22/3+14/3×16/7÷51/2.

(a) 33/11
(b) 35/11
(c) 13/4
(d) 34/11

Q58. There is a 20% discount on a dozen pairs of shoes marked at Rs. 7,200. How many pair of shoes can be bought with Rs. 1,440?

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

Q59. In a right circular cylinder, the ratio of the curved surface to the total surface area is 3 : 7. Find the ratio of the height of the cylinder to the radius of its base.

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

Q60. The salaries of P and Q together amount to Rs. 1,20,000. P spends 95% of his salary and Q 85% of his. If their savings are the same, then what is P’s salary?

(a) Rs. 80,000
(b) Rs. 72,000
(c) Rs. 90,000
(d) Rs. 60,000

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Q61. The monthly income of Manisha was Rs. 1,20,000 and her monthly expenditure was Rs. 55,000. Next year, her income increased by 22% and her expenditure increase by 10%. Find the percentage increase in her savings (correct to 2 decimal places).

(a) 28.16%
(b) 26.25%
(c) 32.15%
(d) 30.08%

Q62. A fruit seller purchased 300 bananas at the rate of Rs. 18 per dozen and sold 200 bananas at the rate of Rs. 24 per dozen and the remaining bananas at the rate of Rs. 21 per dozen. What is his net profit percentage?

(a) 28%
(b) 26%
(c) 27%
(d) 277/9%

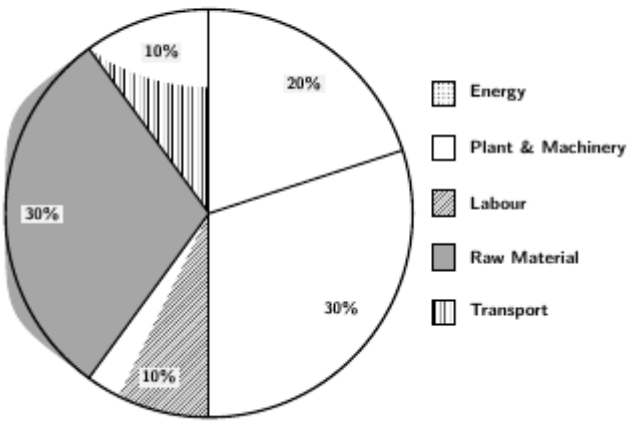
Q63. The table below gives the Inputover Output ratio of a particular firm over five consecutive year

Year	Ratio Input/Output
1996	0.8
1997	1.2
1998	0.9
1999	1.6
2000	1.8

If the inputs in the years 1998 was Rs. 1,200 crores and total output in the years 1998 and 2000 taken together was Rs. 2,500 crores, then what was the input of the firm in the year 2000?

(a) Rs. 1,200 crores
(b) Rs. 2,100 crores
(c) Rs. 3,200 crores
(d) Rs. 1,700 crores

Q64. The given pie chart shows the share of labour, raw material, energy, transportation cost, and plant & machinery in the total manufacturing cost of the company during a particular year. Study the pie chart and answer the question that follows.



The total central angle showing the share of energy, labor, and transportation cost in the total manufacturing cost during the year was:

(a) 162°
(b) 120°
(c) 144°
(d) 135°

Q65. When a certain number is multiplied by 11, the product is a six-digit number containing only 6s. Find the number that is multiplied by 11.

(a) 79365
(b) 78365
(c) 60606
(d) 61661

Q66. The table below gives the numbers of students from five different colleges who participated in the Olympiads of five different subjects during a given year.

Subjects	College A	College B	College C	College D	College E
Hindi	110	100	125	103	112
English	98	120	80	122	105
Maths	130	110	250	160	180
Science	100	100	150	200	80
GK	182	200	120	130	183

Which college had the maximum aggregate number of participants in all the five different subject Olympiads taken together during that year?

(a) College D
(b) College B
(c) College E
(d) College C

Q67. Under a sale offer, Tanvir was offered a 32% discount on the part of the marked price that was paid in cash, but had to add 1.2% on the part of the marked price paid through a credit card. If Tanvir paid 75% of the marked price in cash and the rest through a credit card, what percentage of the marked price was his total final payment?

(a) 76.6%
(b) 75.9%
(c) 76.1%
(d) 76.3%

Q68. Find the length of the longest bamboo pole that can be placed in a room 16 m long, 12 m broad and 10 m high.

(a) 10 √10 m
(b) 5 √5 m
(c) 10 √5 m
(d) 4 √5 m

Q69. The average weight of 8 persons is increased by 2.5 kg when a new person replaces the one whose weight is 45 kg. What is the weight of the new person?

(a) 63 kg
(b) 60 kg
(c) 65 kg
(d) 62 kg

Q70. The mean proportional between 6 and another number is 30. What is that number?

(a) 150
(b) 5 √6
(c) 180

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(d) 6 √5

Q71. A thief is spotted by a policeman from a distance of 480 m. When the policeman starts the chase, the thief also starts running. If the speed of the thief is 19 km/h and that of the policeman is 23 km/h, then how far would the thief have to run before he is overtaken?

(a) 2,080 m
(b) 2,280 m
(c) 2,290 m
(d) 2,180 m

Q72. In what proportion must wheat at Rs. 20.40 per kg be mixed with wheat at Rs. 25.50 per kg, so that the mixture is worth Rs. 23.80 per kg?

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

Q73. What is the simplified value of $\cos^2 (90^o - \theta) - [[(\{\cos (90° - \theta)\cos \theta\})/(\cot \theta)]]$?

(a) 4
(b) 2
(c) 0
(d) 1

Q74. Find the length of diagonal (in cm) of a cube if the volume of the cube is 1331 cm^3

(a) 331 √3
(b) 21 √3
(c) 11 √3
(d) 111 √3

Q75. If x^4 + 1over x^4 = 14159, Then a Possible value of x + 1over x is:

(a) 69
(b) 121
(c) 81
(d) 11

GENERAL AWARENESS

Q76. The Wadali Brothers are famous for which of the following?

(a) Carnatic Music
(b) Chhattisgarhi Folk
(c) Sufi Music
(d) Hindustani Classical Music

Q77. The important singers of _____Gharana are Faiyyaz Khan, Latafat Hussein Khan and Dinkar Kakini.

(a) Patiala
(b) Mewati
(c) Agra
(d) Benaras

Q78. Who among the following has written the autobiography ‘In the afternoon of time: An autobiography’?

(a) Harivansh Rai Bachchan
(b) Ruskin Bond
(c) R K Lakshman
(d) R K Narayanan

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Q79. 'Faster than Lightning: My Autobiography' is the story of which of the following international sprinters?

(a) Usain Bolt
(b) Justin Gatlin
(c) Christian Coleman
(d) Michael Norman

Q80. The proportion of a small increase in income which will lead to increased consumption expenditure is known as _____.

(a) marginal consumption efficiency
(b) marginal propensity to consume
(c) marginal efficiency of income
(d) marginal propensity to save

Q81. Who among the following is NOT a Padma Shri awardee 2022?

(a) Mithali Raj
(b) Avani Lekhara
(c) Sumit Antil
(d) Neeraj Chopra

Q82. The 'Karbi Anglong Agreement' signed in September 2021 is related to the ethnic community of the state of _____.

(a) Sikkim
(b) Assam
(c) Bihar
(d) Uttar Pradesh

Q83. What is the number of players in a cricket team on the ground?

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

Q84. Who among the following is the author of the book 'Sultry Days'?

(a) Anita Nair
(b) Nikita Singh
(c) Shobhaa De
(d) Judy Balan

Q85. Which state does Brahmaputra river enters when it takes U turn at Namcha Barwa?

(a) Mizoram
(b) Assam
(c) Nagaland
(d) Arunachal Pradesh

Q86. Who shared the Nobel Prize in Physiology or Medicine 2005 with Barry J Marshall for the discovery of the Helicobacter pylori bacterium and its role in gastritis and peptic ulcer disease?

(a) Paul Lauterbur
(b) J Robin Warren
(c) Richard Axel
(d) Oliver Smithies

Q87. Kalamandalam Kalyanikutty Amma was an Indian Classical Dancer of _____ dance form.

(a) Sattriya
(b) Mohiniyattam
(c) Odissi

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(d) Kathak

Q88. Which Indian dancer was awarded the French Palme D'or by the French Government in 1977?

(a) Chitra Visweswaran
(b) Oopali Operajita
(c) Mallika Sarabhai
(d) Kavya Madhavan

Q89. Who received the Nobel Prize in 1906,for recognition of the great merits of his theoretical and experimental investigations on the conduction of electricity by gases?

(a) Andre-Marie Ampere
(b) Sir JJ Thomson
(c) Albert Einstein
(d) Alessandro Volta

Q90. Who among the following has written ‘Sangeet Kala Prakash’?

(a) Prabhu Atre
(b) Pandit Jasraj
(c) Ramakrishnabuva Vaze
(d) Pandit Kumar Gandharva

Q91. How many seats were reserved for the Scheduled Tribes in Lok Sabha for the 2019 general election?

(a) 46
(b) 43
(c) 47
(d) 45

Q92. What is the number of players playing in a team in a hockey match?

(a) 12
(b) 9
(c) 10
(d) 11

Q93. The name of which element is derived from an Anglo-Saxon word and its symbol comes from the Latin word ‘Aurum’?

(a) Argon
(b) Gold
(c) Aluminium
(d) Silver

Q94. Sartaj Khan, Sarwar Khan, Swaroop Khan and Mame Khan are famous for which of the following?

(a) Rajasthani folk music
(b) Hindustani classical vocal
(c) Playing percussion instruments
(d) Playing string instruments

Q95. Famous Folk dancer Gulabo Sapera was conferred Padma Shri award for her contribution to which of the following dance forms?

(a) Terah Tali
(b) Kalbeliya
(c) Ghoomar
(d) Bhavai

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Q96. Which type of biome is located in Eastern North America, Western Europe, and Northeast Asia?

(a) Tropical Rainforest Biomes
(b) Coniferous Forest Biomes
(c) Aquatic Biomes
(d) Deciduous Forest Biomes

Q97. Which of the following mountains was formed when molten rock from the depths of the earth rose from the crust and piled up on its own?

(a) Mount Kilimanjaro in Africa
(b) Rockies in North America
(c) Ural mountain in Russia
(d) Alps in Europe

Q98. The Guru of Kuchipudi dance form 'Guru Vempati Chinna Satyam' who was instrumental in getting classical status to Kuchipudi was conferred by which of the following awards in 1998?

(a) Padma Shri
(b) Padma Vibhushan
(c) Sangeet Natak Akademi Award
(d) Padma Bhushan

Q99. Who among the following won Arjuna Award 2021 in Para Table Tennis discipline?

(a) Achanta Sharath Kamal
(b) Manika Batra
(c) Bhavina Patel
(d) Anusha Kutumbale

Q100. Which metal sulphate, composed of potassium, aluminium, and sulphate ions in the ratio 1 : 1 : 2, plays a role as a flame retardant, a mordant and an astringent?

(a) Gypsum
(b) Potash alum
(c) Epsom salts
(d) Celestite

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Wish someone good luck

The correct answer is: Wish someone good luck.

Key Points

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• The idiom 'Break a leg' is used for wishing someone good luck, especially before a performance.
• Example- “Danny's family told him to “break a leg” right before he went up on stage.
• So it is clear that the most appropriate meaning of 'Break a leg' is to Wish someone good luck.
Therefore, the correct answer is option 3.

Q2. Answer: (c) Miss an opportunity

The correct answer is: Miss an opportunity
Key Points
• The idiom 'Miss the boat' means to lose an opportunity to do something by being slow to act.
• Example- The discounted price sale ended today and I just missed the boat on making a great deal.
• So it is clear that the most appropriate meaning of 'Miss the boat' is to 'Miss an opportunity.'
Therefore, the correct answer is option 3.

Q3. Answer: (d) Grotesque

The correct answer is: Grotesque
Key Points
• Comely means pleasurably conforming to notions of good appearance, suitability, or proportion.
• Example- She is very comely, with the beauty indigenous to this country.
• Marked option Grotesque means a very ugly or comically distorted figure or image.
• Example- It was something grotesque, but definitely not a skeleton.
• It is clear that Comely and Grotesque are opposite in meaning.
Therefore the correct answer is option 4.
Additional Information
• Grandiloquent means speaking or expressed in a lofty style, often to the point of being pompous or bombastic.
• Gorgeous means splendidly or showily brilliant or magnificent.
• Gregarious means fond of the company of others; sociable.

Q4. Answer: (b) Prosecute

The correct answer is: Prosecute.
Key Points
• Arraign means to call or bring someone before a court to answer a criminal charge.
• Example- He was arraigned on charges of aiding and abetting terrorists.
• Marked option Prosecute means to officially accuse someone of committing an illegal act, and to bring a case against that person in a court of law.
• Example- He was prosecuted for fraud.
• It is clear that Arraign and Prosecute are similar in meaning.
Therefore the correct answer is option 2.
Additional Information
• Arrive means reaching a place at the end of a journey or a stage in a journey.
• Persecute means harassing or annoying someone persistently.
• Arrange means organising or making plans for a future event.

Q5. Answer: (d) innovation, spark

The correct answer is: innovation and spark.
Key Points
• Innovation means a new method, idea, product, etc.
• Example- Innovation distinguishes between a leader and a follower.
• Spark means a small amount of quality or intense feeling.
• Example- I see a spark in you.
The complete sentence is: Many times innovation starts with the creative spark and the enduring passion of a single individual.
Hence, the correct answer is option 4.
Additional Information
• Tradition means the transmission of customs or beliefs from generation to generation.

• Lethargy means a pathological state of sleepiness or deep unresponsiveness and inactivity.

• Stagnation means a lack of activity, growth, or development.

• Determination means the process of establishing something precisely by calculation or research.

• Renovation means the act or process of repairing and improving something, especially a building.

• Dullness means a lack of interest or excitement.

Q6. Answer: (d) Rohan was treated by Alfred's doctor for his fever.

The correct answer is: Rohan was treated by Alfred's doctor for his fever.

Key Points

• When an action performed by the subject is expressed by the verb, it is an active voice.

• When the action expressed by the verb is received by the subject, it is passive voice.

• Passive voice is used when the doer of the action is not known and the focus of the sentence is on the action and not the subject.

• Rules:

1. Interchange the object and subject with each other.

2. Object of the active sentence becomes the subject of the passive sentence.

3. Change the base verb in the active sentence into the past participle ie. the third form verb in a passive sentence, preceded by (By, With, to, etc).

4. Base verbs are never used in passive voice sentences.

• Example- Active: Tom changed the flat tire.

Passive: The tire was changed by Tom.

Therefore, the correct answer is option 4.

Q7. Answer: (c) ADCB

The correct answer is: ADCB

Key Points

• Let's look at the correct sequence of the passage.

• Statement A is the opening sentence of the passage which gives a brief introduction to the legend Birsa Munda.

• Statement D is the second sentence of the passage which says what people thought about and believed in Birsa Munda.

• Statement C is the third sentence of the passage which explains how he took all the responsibilities to save his people from trouble, and free them from the slavery of 'dikus'.

• Statement B is the last sentence of the passage which explains the rapid popularity of Birsa Munda and how people joined him in his rebellion.

Hence, the correct sequence is A, D, C, B

The correct passage is: A. In 1895, a man named Birsa was seen roaming the forests and villages of Chottanagpur in Jharkhand. D. People said he had miraculous powers – he could cure all diseases and multiply grain. C. Birsa himself declared that God had appointed him to save his people from trouble, and free them from the slavery of 'dikus'. B. Soon thousands began following Birsa, believing that he was God and had come to solve all their problems.

Therefore, the correct answer is option 3.

Q8. Answer: (c) Students are sending the flyer for the international symposium to institutes all over the country.

The correct answer is: Students are sending the flyer for the international symposium to institutes all over the country.

Key Points

• When an action performed by the subject is expressed by the verb, it is an active voice.

• When the action expressed by the verb is received by the subject, it is passive voice.

• Passive voice is used when the doer of the action is not known and the focus of the sentence is on the action and not the subject.

• Rules:

1. Interchange the object and subject with each other.

2. Object of the active sentence becomes the subject of the passive sentence.

3. Change the base verb in the active sentence into the past participle ie. the third form verb in a passive sentence, preceded by (By, With, to, etc).

4. Base verbs are never used in passive voice sentences.

• Example- Active: The teacher always answers the students' questions.

Passive: The students' questions are always answered by the teacher.

Therefore, the correct answer is option 3.

Q9. Answer: (c) In its August 1992 issue, the highly respected British Journal of Addiction described three unusual cases o...

The correct answer is: described.

Key Points

• Replace 'describe' with 'described' to make the sentence correct.

• To create a past-tense verb, we usually add –ed or –d to the base form.

• Add "-ed" to a verb to change it to the past tense.

• 'Described' is 2nd form, apparently, it is used in the past tense.

• The second form of the verb is used for a simple past form of a verb.

• Example- Advertising may be described as the science of arresting human intelligence long enough to get money from it.

Therefore, the correct answer is option 3.

Hence, the corrected sentence is: In its August 1992 issue, the highly respected British Journal of Addiction described three unusual cases of carrot dependence.

Q10. Answer: (c) Extremely happy

The correct answer is: Extremely happy

Key Points

• On cloud nine means being extremely happy and excited.

• Example- He was on cloud nine after winning the competition.

• So, it is clear that the most appropriate meaning of the given idiom 'On cloud nine' is 'Extremely happy.'

Hence, the correct answer is option 3.

Q11. Answer: (b) Weaken

The solution is in Hindi. Read it online.

Q12. Answer: (a) Quear

The solution is in Hindi. Read it online.

Q13. Answer: (c) Wrangle

The correct answer is: Wrangle

Key Points

• Wrangle means a dispute or argument, typically one that is long and complicated.

• Example- He was involved in a legal wrangle with the Health Secretary.

So, it is clear that the 'Wrangle' can be used as a one-word substitute for 'To dispute angrily.'

Additional Information

• Wrench means a feeling of sadness or distress caused by one's own or another's departure.

• Wreck means destroying or severely damage of a structure, vehicle, or similar.

• Wrack is when something falls into disrepair.

Therefore, the correct answer is option 3.

Q14. Answer: (c) essential

The correct answer is: Essential

Key Points

• Dispensable means capable of being dispensed with or done without; not necessary or essential.

• Example- Computers have made typewriters dispensable.

• Marked option Essential means a thing that is absolutely necessary.

• Example- Mistakes are an essential part of education.

• So, It is clear that Dispensable and Essential are opposite in meaning.

Therefore the correct answer is option 3.

Additional Information

• Acceptable means satisfactory and able to be agreed to or approved of.

• Urgent means requiring immediate action or attention.

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• Popular means liked or admired by many people or by a particular person or group.

Q15. Answer: (b) Concentratte

The correct answer is: Concentratte

Key Points

• The correct spelling should be 'Concentrate.'

• Concentrate means focusing all one's attention on a particular object or activity.

• Example- With his sister's music blaring in the background, it was impossible for Rahul to concentrate on his piano lesson.

Therefore, the correct answer is option 2 which is incorrectly spelled.

Important Points

• The rest of the options are correctly spelled.

Q16. Answer: (b) neither

The correct answer is: neither

Key Points

• Neither is used to introduce a further negative statement.

• Neither/nor are conjunctions that connect two parts of a sentence to each other.

• They must be used in parallel structures.

• Neither/nor is used when the choice is negative or the person wants to say that more than one thing is not true.

• Example- I neither speak Spanish nor understand it.

It is neither an obsession nor a projection of his mind, although it certainly does compel him.

So, it is clear that the most appropriate word is 'neither'.

Therefore, the correct answer is option 2.

Q17. Answer: (c) opened the door

The correct answer is: opened the door.

Key Points

• Replace 'opens' with 'opened' to make the sentence correct.

• Add "-ed" to a verb to change it to the past tense.

• 'Opened' is 2nd form, apparently, it is used in the past tense.

• When we use 'yesterday' in a sentence, we should write it in Simple Past Tense.

• Example- It rained heavily yesterday afternoon.

Therefore, the correct answer is option 3.

Hence, the corrected sentence is: The children opened the door silently, yesterday.

Q18. Answer: (d) Appreciate

The correct answer is: Appreciate.

Key Points

• Admire means regard with respect or warm approval.

• Example- I admire him for his courage.

• Marked option Appreciate means recognising the full worth.

• Example- I really appreciate everything you've done.

• It is clear that Admire and Appreciate are similar in meaning.

Therefore the correct answer is option 4.

Additional Information

• Neglect means the state of being uncared for.

• Admonish means advising or urging someone earnestly.

• Forget means fail to remember.

Q19. Answer: (c) Versatile

The correct answer is: Versatile.

Key Points

• Versatile means able to adapt or be adapted to many different functions or activities.

• Example- He is a man of versatile abilities.

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• So, it is clear that the 'Versatile' can be used as a one-word substitute for 'who has many skills'

Additional Information

• Vulnerable means exposed to the possibility of being attacked or harmed, either physically or emotionally.

• Innovative means introducing new ideas; original and creative in thinking.

• Fragile means easily broken or damaged.

Therefore, the correct answer is option 3.

Q20. Answer: (b) convict

The correct answer is: Convict.

Key Points

• Exonerate means releasing someone from a duty or obligation.

• Example- The poor man was exonerated from the accusation of cheating.

• Marked option Convict means a person found guilty of a criminal offence and serving a sentence of imprisonment.

• Example- The jury convicted them of fraud.

So, it is clear that 'Exonerate' and 'Convict' are opposite in meaning.

Additional Information

• Falsity means the fact of being untrue, incorrect, or insincere.

• Beliefs mean trust, faith, or confidence in someone or something.

• Difficult means characterized by or causing hardships or problems.

Therefore, the correct answer is option 2.

Q21. Answer: (a) massive

The correct answer is: massive.

Key Points

• Massive means exceptionally large.

• Example- The bad harvest caused massive food shortages.

So, it is clear that the most appropriate word is 'massive'.

Additional Information

• Passive means receiving or enduring without resistance: submissive.

• Intrusive means causing disruption or annoyance through being unwelcome or uninvited.

• Conclusive means something that puts an end to arguments or that definitively proves something or ends a dispute.

Therefore, the correct answer is option 1.

Q22. Answer: (d) elegance

The correct answer is: elegance.

Key Points

• Elegance means the quality of being graceful and stylish in appearance or manner.

• Example- They remind us of a time when our culture was sophisticated and full of elegance and beauty.

So, it is clear that the most appropriate word is 'elegance'.

Additional Information

• Harshness means the quality of being cruel or severe.

• Masculinity means qualities or attributes regarded as characteristics of men.

• Vengeance means punishment inflicted or retribution exacted for an injury or wrong.

Therefore, the correct answer is option 4.

Q23. Answer: (d) circular

The correct answer is: circular

Key Points

• Circular means having the form of a circle.

• Example- The island was originally circular in shape.

So, it is clear that the most appropriate word is 'Circular'.

Additional Information

• Perpendicular means a straight line at an angle of 90° to a given line, plane, or surface.

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• Peculiar means different to what is normal or expected; strange.

• Vertical means at right angles to a horizontal plane; in a direction, or having an alignment, such that the top is directly above the bottom.

Therefore, the correct answer is option 4.

Q24. Answer: (c) equals

The correct answer is: equals

Key Points

• Equals mean a person or thing that is the same as another in status or quality.

• Example- As his adopted brothers in the war against evil, the two of them were his equals.

So, it is clear that the most appropriate word is 'equals'.

Additional Information

• Crossed means passing in an opposite or different direction.

• Unequal means not equal in quantity, size, or value.

• Conical means having the shape of a cone.

Therefore, the correct answer is option 3.

Q25. Answer: (b) expression

The correct answer is: expression.

Key Points

• Expression means the action of making known one's thoughts or feelings.

• Example- the prisoners developed a dialect as an everyday means of expression.

So, it is clear that the most appropriate word is 'expression'.

Additional Information

• Depression means a persistent feeling of sadness and loss of interest.

• Inspiration means someone or something that gives you ideas for doing something

• Running means going steadily by springing steps so that both feet leave the ground for an instant in each step..

Therefore, the correct answer is option 2.

Q26. Answer: (c) 6

Here, we can see that number 5 is common in both the dices.

Also, we will write the numbers in clockwise direction starting from common number.

1st dice: 5 - 4 - 6

2nd dice: 5 - 3 - 1

Thus, doing so, we will get number 6 which will be opposite to number 1.

Hence, the number 6 will be on the face opposite to the one showing '1'.

Q27. Answer: (b) LHOK

According to the English alphabet series and its positional value, we will get,

The logic follows here is:

Hence, the answer is 'LHOK'.

Q28. Answer: (b) Net

Here, we are given some pattern.

Logic: As we can see the second term is the opposite of the first term.

→ Tis is written from the last letter and we get Sit.

And,

→ Tip is written from the last letter and we get Pit.

Similarly,

→ Ten is written from the last and we get Net.

Hence, the correct answer is "Net".

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Q29. Answer: (b) [figure]

Here we can see that the given paper is folded three times.

=

Hence, the correct answer is "Option2"

Q30. Answer: (d) 17

The logic followed here is:

Logic: First number × 14 = Second number.

1) 9 : 126 => 9 × 14 = 126

And,

2) 21 : 294 => 21 × 14 = 294

Similarly,

3) ? : 238 => ? × 14 = 238 = 238 ÷ 14 = 17

Hence, the correct answer is "17".

Q31. Answer: (b) 4, 3, 2, 1, 5

We will arrange the given words in alphabetical order as shown below:

4. Abbreviation

3. Abduct

2. Absolutely

1. Absorption

5. Accurate

Hence, the correct order is "4, 3, 2, 1, 5".

Q32. Answer: (a) 257

The logic here is:

As we can see that all the given numbers are prime numbers.

Prime numbers are numbers which have only two factors i.e. 1 and the number itself.

So, the next prime number after 251 will be 257.

Hence, the correct answer will be 257.

Q33. Answer: (d) IMMFET

We will also use the letters and their positions as shown below:

The logic here is:

For the word SIMPLE : ISNKEL

For the word PUBLIC: UPYOCI

Similarly for the word MINUTE: ? we have

Thus, the word IMMFET is related to the fifth term.

Hence, the correct answer is 'option 4'.

Q34. Answer: (c) 74

The logic followed here is:

Logic: In a row → Second number × 3.5 + First number = Third number

=> In row first → 6, 8, 34

=> 8 × 3.5 + 6 = 34

And,

=> In row second → 3, 2, 10

=> 2 × 3.5 + 3 = 10

Similarly,

=> In row third → 11, 18, ?

=> 18 × 3.5 + 11 = 74

Hence, the correct answer is "74".

Alternate MethodLogic: First number × 2 + Second number × 3 - 2 = Third Number

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In row first → 6, 8, 34

= 6 × 2 + 8 × 3 - 2 = 34

In row second → 3, 2, 10

= 3 × 2 + 2 × 3 - 2 = 10

Similarly,

In row third → 11, 18, ?

= 11 × 2 + 18 × 3 - 2 = 74

Hence, the correct answer is "74".

Q35. Answer: (a) 1, 5, 3, 2, 4

We will arrange the given words in alphabetical order as shown below:

1. Draft
5. Dragon
3. Drain
2. Drake
4. Drape

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

Q36. Answer: (c) ×, +, −, =, ×, +

BODMAS Rule:

Given : 14 * 5 * 55 * 74 * 12 * 4 * 3

First, we will substitute each option by one by to check the answer.

1) =, +, −, ×, −, ÷

Substitute these signs, we will get,

=> 14 = 5 + 55 - 74 × 12 - 4 ÷ 3

=> 14 = 5 + 55 - 74 × 12 - 1.33

=> 14 = 5 + 55 - 888 - 1.33

=> 14 ≠ -829.33,

2) +, −, =, −, ×, +

Substitute these signs, we will get,

=> 14 + 5 - 55 = 74 - 12 × 4 + 3

=> 14 + 5 - 55 = 74 - 48 + 3

=> -36 ≠ -829.33

3) ×, +, −, =, ×, +

Substitute these signs, we will get,

=> 14 × 5 + 55 - 74 = 12 × 4 + 3

=> 70 + 55 - 74 = 48 + 3

=> 51 = 51

4) ×, −, =, +, −, ×

Substitute these signs, we will get,

=> 14 × 5 - 55 = 74 + 12 - 4 × 3

=> 70 - 55 = 74 + 12 - 12

=> 15 ≠ 74

Hence, the correct answer is "Option 3".

Q37. Answer: (b) DGQIGU

Here, the alphabetic order and their positions are as shown below:

The logic follows here is:

“CASTLE” is written as “BYPUNH”

And,

“DEMAND” is written as “CCJBPG”

Similarly,

“EITHER” be written as '?'

Hence, the correct answer is "DGQIGU"

Q38. Answer: (a) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below:-

Detailed Explanation:-

• The line MN is the mirror.

• The last letter '

'. So the first letter in the mirror image will be '

'. → Option 2 is eliminated.

• Again, all the letters will appear in the mirror image. → Options 3 and 4 both are also eliminated.

Hence, 'Option 1' is the correct answer.

Additional Information

• In a mirror image, Left changes to rightand theright changes to leftwheretop and bottom remain the same.

• When placement of the mirror not given, by default we will assume it in vertical direction.

• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q39. Answer: (a) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below:-

Detailed Explanation:-

• The line MN is the mirror.

• The word '

' ends with the letter '

'. So the mirror image will start with '

'.

• The numbers '

'. So the mirror image will be '

'

.

• → Options 2, 3, and 4 are eliminated.

Hence, 'Option 1' is the correct answer.

Additional Information

• In a mirror image Left changes to right and the right changes to left where top and bottom remains the same.

• When placement of mirror not given, by default we will assume it in vertical direction.

• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q40. Answer: (c) 14

The logic used here is as:

5 × 1 + 1 = 6,

6 × 2 + 2 = 14, which is the answer

14 × 3 + 3 = 45,

45 × 4 + 4 = 184,

184 × 5 + 5 = 925

Hence, the correct answer is "14".

Q41. Answer: (b) (342, 19, 36)

The pattern followed here is:

Logic: Second number × Third number ÷ 2 = First number.

First we will check all the options.

1) (362, 13, 54) = (13 × 54) ÷ 2 = 351 ≠ 362

2) (342, 19, 36) = (19 × 36) ÷ 2 = 342 = 342

3) (369, 15, 78) = (15 × 78) ÷ 2 = 585 ≠ 362

4) (398, 16, 34) = (16 × 34) ÷ 2 = 272 ≠ 362

Hence, the correct answer is "(342, 19, 36)".

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Q42. Answer: (d) [figure]

The correct mirror image of the given combination when the mirror is placed at MN is as shown below:-

Detailed Explanation:-

• The line MN is the mirror.

• The word "

" ends with "

". So, the mirror image will start with "

" → Option 3 is eliminated.

• The letter "

" is used. So, the mirror image will be "

"→ Options 1 and 2 are eliminated.

Hence, Option 4 is the correct answer.

Additional Information

• In a mirror image, the Left changes to rightand theright changes to leftwheretop and bottom remain the same.

• When placement of the mirror is not given, by default we will assume it is in the vertical direction.

• The starting letter word will be at last after the mirror image drawn with left changes to right and right changes to left.

Q43. Answer: (d) Only conclusion II follows

The least possible Venn diagram is given below:

Conclusion:

1) Some apartments are flats → Does not follow → (As Some bungalows are flats and some apartments are bungalows so some apartments are flats is possible but not definite true)

2) Some flats are bungalows → Follow → (As Some bungalows are flats and so some flats are bungalows is true)

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

Q44. Answer: (d) 164

The logic here is:

Hence, the missing number is 164.

Q45. Answer: (b) –, +, ×, ÷, =

BODMAS rule:

Given : 16 * 4 * 8 * 10 * 2 * 52

First, we will substitute each option by one to check the answer.

1) ×, ÷, –, +, =

Substitute these signs, we will get,

=> 16 × 4 ÷ 8 - 10 + 2 = 52

=> 16 × 0.5 - 10 + 2 = 52

=> 8 - 10 + 2 = 52

=> 0 ≠ 52, which is not possible. This option is not true.

2) –, +, ×, ÷, =

Substitute these signs, we will get,

=> 16 - 4 + 8 × 10 ÷ 2 = 52

=> 16 - 4 + 8 × 5 = 52

=> 16 - 4 + 40 = 52

=> 52 = 52, which is possible. This option is true.

3) ÷, ×, –, +, =

Substitute these signs, we will get,

=> 16 ÷ 4 × 8 - 10 + 2 = 52

=> 4 × 8 - 10 + 2 = 52

=> 32 - 10 + 2 = 52

=> 24 ≠ 52, which is not possible. This option is not true.

4) ÷, ×, +, –, =

Substitute these signs, we will get,

=> 16 ÷ 4 × 8 + 10 - 2 = 52

=> 4 × 8 + 10 - 2 = 52

=> 32 + 10 - 2 = 52

=> 40 ≠ 52, which is not possible. This option is not true.

Thus, the correct option is "–, +, ×, ÷, =".

Hence, the correct answer is 'option 2'.

Q46. Answer: (a) 267

The pattern followed here is:

The logic here is:

First, we will take out the difference as :

17 - 13 = 4

24 - 17 = 7

36 - 24 = 12

55 - 36 = 19

85 - 55 = 30

128 - 85 = 43

188 - 128 = 60

So, the logic follows here is as:

17 = 13 + 4

24 = 17 + 4 + 3 (1st prime number is added)

36 = 24 + 7 + 5 (2nd prime number is added)

55 = 36 + 12 + 7 (3rd prime number is added)

85 = 55 + 19 + 11 (4th prime number is added)

128 = 85 + 30 + 13 (5th prime number is added)

188 = 128 + 43 + 17 (6th prime number is added)

Thus, we will add the last number and the difference between the last two numbers and the 7th prime number too, we will get,

188 + 60 + 19 = 267

Hence, the missing number will be 267.

Q47. Answer: (c) ICWB

Here, the alphabets and their positions are given below:

The logic follows here is as shown below:

Hence, the correct answer is "ICWB".

Q48. Answer: (d) 1 7 7 17 39 17 29 27

Here, we are given with some code of the letters and using that we need to find the answer.

So, the code of the letters are as shown below:

Form the word DIVIDE, we will get,

D = 7, I = 17, V = 43, E = 9

And, from the word SUBTRACT, we will get,

S = 37, U = 41, B = 3, T = 39, R = 35, A = 1, C = 5

Next, the code for the word ADDITION will be:

A = 1, D = 7, D = 7, I = 17, T = 39

But as we can see there is no code for the letters O and N.

Hence, the correct code is '1 7 7 17 39 17 29 27' for the given word.

Q49. Answer: (c) 32

Here, we need to count the total number of triangles.

First, we need to count the small triangles.

So, we have 20 triangles.

Next, we will combine more than 2 triangles, we will get,

So, we have 4 triangles as shown in the red line.

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Again, we have,
So, we have 4 triangles as shown in the yellow line.
Again, we have,
So. we have 4 triangles as shown in the yellow line.
Thus, we have a total of = 20 + 4 + 4 + 4 = 32.
Hence, we have a total of 32 triangles.

Q50. Answer: (b) 36 : 5

Here, we need to find the pattern to get the odd number pair.
So, we have to check the options one by one.
1) 64 : 6 => √64 = 8 - 2 = 6
2) 36 : 5 => √36 = 6 - 2 = 4 ≠ 5
3) 169 : 11 => √169 = 13 - 2 = 11
4) 196 : 12 => √196 = 14 - 2 = 12
The logic here is: We take the square root to the 1st term and then the answer is subtracted by 2 to get the 2nd term.
Thus, all except option 2 does not follow the pattern.
Hence, the number pair '36 : 5' is the odd one out.

Q51. Answer: (c) 11.2 cm

Given:
ΔABC is similar to ΔPQR
Area of ΔABC is 64 cm2
Area of ΔPQR is 121 cm2
QR = 15.4 cm
Concept:
The ratio of the areas of two similar triangles is equal to the ratio of the squares of the corresponding sides & medians.
Calculations:
According to concept:
area(ΔABC)/area(ΔPQR) = BC2/QR2
=> 64/121 = BC2/QR2
=> √(64/121) = BC/QR
=> 8/11 = BC/15.4
=>BC = (15.4 × 8)/11
=>BC = 11.2
Therefore BC = 11.2 cm

Q52. Answer: (c) 0.67

Given:

Features	Rating	weightage
Safety	8/10	40%
Comfort	6/10	20%
Fuel mileage	5/10	30%
Exterior looks	8/10	10%

Concept used:
Weighted average = ∑ (Rating × weightage)
Calculations:
Weighted average = ∑ (Rating × weightage)
=> 8/10 × 40% + 6/10 × 20% + 5/10 × 30% + 8/10 × 10%
=> (0.8 × 0.4) + (0.6 × 0.2) + (0.5 × 0.3) + (0.8 × 0.1)
=> (0.32 + 0.12) + (0.15) + (0.08)
=> 0.67

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Therefore The Weighted average is 0.67.

Q53. Answer: (c) 15

Given:

Ratio of time taken by Anamika and Bani to complete work alone is 1 : 3

Time taken by Anamika is 40 days less than that of Bani to together complete the work.

Formula used:

Efficiency = Total work/Time taken

Calculation:

Let time taken by Anamika and Bani be x and 3x respectively.

Then according to the question,

x + 40 = 3x

=> 2x = 40

=> x = 20

Hence, Anamika takes 20 days and Bani takes 60 days.

Now, Anamika and Bani together do work in

=> (20×60)/(20+60)

=> 15 days.

Therefore Anamika and Bani together do the work in 15 days.

Q54. Answer: (d) 3

Given:

3ab × (a + b)-1 × (a-1 + b-1)

Calculations:

3ab × (a + b)-1 × (a-1 + b-1)

=> 3ab × 1/(a+b) × (1/a+1/b)

=> 3ab × 1/(a+b) × (a+b)/ab

=> 3

Therefore The Required simplified value of 3ab × (a + b)^(-1)× (a^(-1) + b^(-1)) is 3.

Q55. Answer: (c) 3over5

Given:

x +1/x = 5

Calculations:

According to question,

3xover2x² +2-5x

On dividing both numerator and denominator by x, we get:

=> 3/(2x+2/x -5)

=> 3/(2(x+1/x)-5)

=> 3/(10-5)

=> 3/5

Therefore The value of 3xover2x² +2-5x is 3/5.

Q56. Answer: (d) 16 years

Shortcut Trick

If a sum becomes x times in T years, it becomes x^n times in n × T years.

Given: Sum becomes 3^1 times in 4 years (x = 3, T = 4).

To find: Time to become 81 times.

Since 81 = 3^4, here n = 4.

Required time = n × T = 4 × 4 = 16 years.

Therefore The correct answer is 16 years.

Alternate Method

Given: Sum becomes 3 times in 4 years at Compound Interest.

Formula Used: A = P(1 + r/100)^t

=> Case 1: 3P = P(1 + r/100)^4

=> 3 = (1 + r/100)^4 — (Equation 1)

=> Case 2: 81P = P(1 + r/100)^t

=> 81 = (1 + r/100)^t

=> (3)^4 = (1 + r/100)^t

=> [(1 + r/100)^4]^4 = (1 + r/100)^t [From Eq. 1]

=> (1 + r/100)^(16) = (1 + r/100)^t

=> t = 16 years

Therefore The correct answer is 16 years.

Additional Information

Compound Interest Formula

The amount A on a principal P for t years at rate r% compounded annually is A = P(1 + r/100)^t.

Successive Growth in CI

In compound interest, the amount grows geometrically. If a sum doubles in T years, it becomes 2^2 times in 2T years, 2^3 times in 3T years, and so on.

Rule of 72

A quick shortcut to estimate the time required to double an investment is T ≈ 72 ÷ r, where r is the annual interest rate.

Q57. Answer: (b) 35/11

Given:

22/3+14/3×16/7÷51/2

Concept used:

BODMAS

Calculations:

22/3+14/3×16/7÷51/2

=> 8/3+7/3×13/7÷11/2

=> 8/3 + 7/3×13/7×2/11

=> 8/3+26/33

=> 114/33 = 38/11

=> 35/11

Therefore The simplified value is 35/11.

Q58. Answer: (a) 3

Given:

Marked price of 12 pair of shoes = Rs. 7, 200

Discount = 20%

Money available = Rs. 1, 440

Formula used:

S.P = (100-discount)/100 × M.P

Calculations:

According to the concept:

S.P = (100-20)/100 × 7,200

=> 80/100 × 7,200

=> Rs.5,760

S.P of 12 pair of shoes is Rs.5,760.

In Rs.1,440, the pair of shoes can be bought

=> 12/5760 × 1440 = 3

Therefore The no. of pair of shoes that can be bought at Rs. 1,440 is 3.

Q59. Answer: (a) 3 : 4

Given:

Ratio of the curved surface area and total surface area of a cylinder is 3 : 7.

Formula used:
Curved surface area of cylinder = 2πrh
Total surface area of cylinder = 2πrh + 2πr2
Calculation:
According to question,
Curved surface area/ Total surface area= 3/7
=> 2πrh/(2πrh + 2πr2) = 3/7
=> 2πrh/[2πr(h + r)] = 3/7
=> h/(h + r) = 3/7
=> 7h = 3h + 3r
=> 7h - 4h = 3r
=> 4h = 3r
=> h/r = 3/4
=> h : r = 3 : 4
Therefore The ratio of Height and Radius of a Cylinder is 3 : 4.

Q60. Answer: (c) Rs. 90,000

Given:
The salaries of P and Q together amount to Rs. 1,20,000.
P spends 95% of his salary and Q 85% of his.
If their savings are the same
Calculations:
According to the question,
Let the Salary of P be 'x' and that of Q be 'y'
Salary of P + Salary of Q = Rs. 120000
P spends 95% of his salary then his savings are 5% and savings of B is 15%
Savings of P = Savings of Q
=> 5% of Salary = 15% of Salary
=> 5% × x = 15% × y
=> 5x = 15y
=> x = 3y
Now,
Salary of P + Salary of Q = Rs. 120000
=> x + y = Rs. 120000
=> 3y + y = 120000
=> 4y = 120000
=> y = 120000/4 = 30000
Now Salary of P
Salary of P + Rs. 30000 = Rs. 120000
=> Salary of P = Rs. 120000 - Rs. 30000
=> Salary of P = Rs. 90000
Therefore Salary of P = Rs. 90000
Shortcut Trick=> 5% of P's Salary = 15% of Q's Salary
=> (P's Salary/Q's Salary) = 3/1
Now,
=> P's Salary = 3x
=> Q's Salary = x
=> Total = 3x + x = 4x
=> 4x = 120000
=> x = 30000
Therefore P's Salary = 3x = 3 × 30000 = 90000.

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Q61. Answer: (c) 32.15%

Given:

The monthly income of Manisha = Rs. 1,20,000

Her monthly expenditure = Rs. 55,000.

Next year, her income increased by 22%, and her expenditure increased by 10%.

Calculations:

According to the question,

Monthly savings of Manisha = Income - Expenditure

Savings = 120000 - 55000 = Rs. 65000

After an increment in salary by 22% and expenses by 10% then

=> Salary = 120000(1 + 22%)

=> Salary = 120000(1 + 0.22)

=> Salary = 120000 × 1.22 = Rs. 146400

Now Expenses = 55000(1 + 10%)

=> Expenses = 55000(1 + 0.10)

=> Expenses = 55000 × 1.10 = Rs. 60500

Now Savings after increment = Rs. 146400 - Rs. 60500 = Rs. 85900

Now for Growth in savings,

=> 85,900 - 65,000 = 20,900

%Increase = 20,900/65,000 × 100

=> 32.15%

Therefore The percentage increase in her savings is 32.15%.

Q62. Answer: (d) 277/9%

Given:

The Cost Price (CP) of 300 bananas at = Rs. 18 per dozen

The Selling Price (SP1) of 200 bananas at = Rs. 24 per dozen

The Selling Price (SP2) of remaining bananas at = Rs. 21 per dozen.

Concept used:

Profit% = SP - CPover CP × 100

Calculations:

According to the question,

12 banana = 1 dozen

=> 300 banana = 300/12 = 25 dozens

Cost Price of 25 dozens = 25 × 18 = Rs. 450

He Sold 200 bananas at Rs. 24 per dozen

=> 200 bananas = 200/12 = 16.66 dozens

Cost price of 16.66 dozens of bananas = 16.66 × 24

=> Rs. 399.84 ~ Rs. 400

He Sold 100 bananas at Rs. 21 per dozen

=> 100 bananas = 100/12 = 8.33 dozens

Cost price of 8.33 dozens of bananas = 8.33 × 21

=> Rs. 174.93 ~ Rs. 175

Net Selling Price = 400 + 175 = Rs. 575

Net Profit% = [(575 - 450)/(450)] × 100

=> Net Profit% = [125/450] × 100

=> Net Profit% = 0.2777 × 100 = 27.77% or ??? 277/9%

Therefore His net profit percentage = 27.77% or 277/9% .

Q63. Answer: (b) Rs. 2,100 crores

Given:

Input in year 1998 = Rs. 1200 cr.

Total output of years 1998 and 2000 = Rs. 2500 cr.
Calculations:
Let the output for year 1998 be x,
In 1998,
Ratio = input/output
=> 0.9 = 1200/x
=> x = 1200/0.9 = 4000/3 cr.
Now,
Total output = 2000 output + 1998 output
=> 2500 = Output + 4000/3
=> Output = 2500 - 4000/3
=> Output = (7500 - 4000)/3 = 3500/3
Now, ATQ,
In 2000,
Ratio = input/output
=> 1.8 = input/(3500/3)
=> Input = 1.8 × 3500/3
=> Input = 0.6 × 3500 = Rs. 2100 cr.
Therefore The input of the firm in the year 2000 Rs. 2100 cr.

Q64. Answer: (c) 144°

Given:
Concept used:
Considering 360° as 100%
Calculations:
According to the question,
Total central angle showing the share of energy, labor, and transportation cost,
=> Energy% + Labour% + Transportation%
=> (30% + 10% + 10%) of 360°
=> Angle = 40% × 360°
=> Angle = 4 × 36° = 144°
Therefore The total central angle is 144°.

Q65. Answer: (c) 60606

Given:
When a certain number is multiplied by 11,
the product is a six-digit number containing only 6s
Calculations:
A six-digit number containing only 6s = 666666
Let the no. multiplied by 11 be 'x'
According to the question,
=> 11 × x = 666666
=> x = 666666/11 = 60606
Therefore The number that is multiplied by 11 is 60606.

Q66. Answer: (d) College C

Calculations:
The maximum aggregate number of participants in all the five different subject Olympiads taken together during that year
Total aggregate of College,
=> (Hindi) + (English) + (Maths) + (Science) + (GK)
Total aggregate of College A,
=> 110 + 98 + 130 + 100 + 182 = 632
Total aggregate of College B,

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=> 100 + 120 + 110 + 100 + 200 = 630
Total aggregate of College C,
=> 125 + 80+ + 250 + 150 + 120 = 725
Total aggregate of College D,
=> 103 + 122 + 160 + 200 + 130 = 715
Total aggregate of College E,
=> 112 + 105 + 180 + 80 + 183 = 660
Therefore College C had the maximum aggregate.

Q67. Answer: (d) 76.3%

Given:
Discount% on part of MP is 32%
Credit Card Discount on part of MP is 1.2%
Tanvir paid 75% of the marked price in cash and the rest through a credit card
Calculations:
According to the question,
Payment in cash,
Payment = [(100 - 32)/100] × 75/100 × MP
=> 68/100 × 75/100 × MP
=> (68 × 75)/10000 × MP
=> 5100/10000 × MP
=> Payement = 0.51MP
Payment in card,
Payment = [(100 + 1.2)/100] × [(100 - 75)/100] × MP
=> 101.2/100 × 25/100 × MP
=> (101.2 × 25)/10000 × MP
=> 2530/10000 × MP
=> Payement = 0.235MP
Total Payment = 0.51MP + 0.253 MP = 0.763 MP
Now, Percentage = 0.763MP/ MP × 100 = 76.3%
Therefore His total final payment was 76.3%.

Q68. Answer: (c) 10 √5 m

Given:
Length (l) is 16 m
Breadth (b) is 12 m
Height (h) is 10 m
Concept used:
Diagonal of a cuboid = $\sqrt{(l^2 + b^2 + h^2)}$
Calculations:
According to the question,
Diagonal of a cuboid = √(162 + 122 + 102)
=> Diagonal = √(256 + 144 + 100)
=> Diagonal = √500
=> Diagonal = √(5 × 100) = 10√5 m
Therefore The longest bamboo pole that can be placed in a room is 10√5 m long.

Q69. Answer: (c) 65 kg

given:
Total number of persons 8. Is
Average weight increased by 2.5 kg
Calculation:
total weight increased,

8 x 2.5 kg = 20 kg
Replaced person's weight = 45 kg
new person's weight,
(45 + 20) kg = 65 kg
The weight of the new person is 65 kg.

Q70. Answer: (a) 150

Given:
The mean proportional between 6 and another number is 30
Concept used:
Mean proportion of a and b = √ab
Calculations
Let another number be 'a'
Mean proportion = √(6 × a)
=> 30 = √(6 × a)
Squaring both sides
=> 900 = 6a
=> a = 900/6 = 150
Therefore The another no. is 150.

Q71. Answer: (b) 2,280 m

Given:
Distance between policeman and thief is 480 m.
Speed of the thief is 19 km/hr
Speed of the policeman is 23 km/hr,
Concept used:
Speed = Distance/Time
Calculations:
Relative speed,
=> 23 - 19 = 4 km/hr = 4 × 5/18 = 10/9 m/s
Time taken by police to overtake the thief,
=> 480/(10/9) = 432 sec
Distance travelled by the thief in 432 sec = 432 × 19 × 5/18
=> (432 × 19 × 5)/18
=> 41040/18 = 2280 m
Therefore The thief have to run 2280 m before he is overtaken.

Q72. Answer: (d) 1 : 2

Given:
Wheat A at is Rs. 20.40/kg
Wheat B at is Rs. 25.50/kg
Calculations:
Let, grocer mixes x kg of Wheat A and y kg of wheat B
Total mixture (x + y) kg worth Rs.23.80 per kg
According to the question,
20.40x + 25.5y = 23.8(x + y)
=> 20.40x + 25.5y = 23.8x + 23.8y
=> 23.8x - 20.40x = 25.5y - 23.8y
=> x(23.8 - 20.40) = y(25.5 - 23.8)
=> 3.4x = 1.7y
=> x/y = 1.7/3.4
=> x/y = 1/2 = 1 : 2
Therefore The proportion of mixer is 1 : 2.

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Shortcut Trick Using allegation method:

Therefor the ratio is 1 : 2.

Q73. Answer: (c) 0

Given:

cos2(90º – θ) – (cos(90-θ)cosθ)/cotθ

Concept used:

cos(90 – θ) = sinθ

Calculations:

cos2(90º – θ) –)((cos(90-θ)cosθ)/cotθ

=> sin²θ – (sinθ cosθ)/cotθ

=> sin²θ – sin²θ

=> 0

Therefore The Required simplified value is 0.

Q74. Answer: (c) 11 √3

Given:

Volume of the cube is 1331 cm³

Concept used:

Volume of cube = (a)³

Diagonal of cube = √3a

Calculations:

According to the question,

=> Volume = (a)3

=> 1331 = (a)3

=> a = 11 cm

Now diagonal

=> Diagonal = √3a

=> Diagonal = 11√3 cm

Therefore The length of diagonal (in cm) = 11√3 cm.

Q75. Answer: (d) 11

Given:

x^4 + 1over x^4 = 14159

Formula used:

x^4 + 1over x^4 = {(x + 1/x)² - 2}² - 2

Calculations:

x^4 + 1over x^4 = 14159

=> (x² + 1/(x²))²= 14161

=> x² + 1/(x²) = √14161 = 119

=> (x + 1/x)² = 121

=> x + 1/x = √121 = 11

Therefore x + 1/x = 11

Q76. Answer: (c) Sufi Music

The correct answer is Sufi Music.

Key Points

• The Wadali Brothers – Puranchand Wadali and Pyarelal Wadali – are Sufi singers.

• Wadali Brothers are world-famous Sufi singers and their real names are Ustad Puran Chand Wadali and Pyarelal Wadali.

• They belong to the small village “GURU KI WADALI” nearby Amritsar city in Punjab.

• The Wadali Brothers show their singing performance in the Gurbani, Kafi, Ghazal, and Bhajan Genres of Music.

• They believe in the Sufi tradition deeply and in a free atmosphere as an homage to the divine one.

• For their beautiful performance, they were awarded Sangeet Natak Akademi Award in 1991, Tulsi Award in 1988, Punjab

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Sangeet Natak Akademi Award in 2003 and the most famous award is the Padma Shri Award by the Government of India to the Ustad Puran Chand Wadali in 2005.

Additional Information

• Sufi music refers to the devotional music of the Sufis, inspired by the works of Sufi poets like Rumi, Hafiz, Bulleh Shah, Amir Khusrau, and Khwaja Ghulam Farid.

• Qawwali is the best-known form of Sufi music and is most commonly found in the Sufi culture in South Asia.

• Carnatic music known as Karnātaka samgīta or Karnātaka sangītam in the South Indian languages, is a system of music commonly associated with South India, including the modern Indian states of Karnataka, Andhra Pradesh, Telangana, Kerala, Tamil Nadu, and Sri Lanka.

• Chhattisgarh Folk Songs occupy a distinguished place in the culture of the state.

Many schedule tribes/castes like Gond, Kamar, Kanver, Korva, Birhi, Baiga, Halba, Pando, Uranv, and Binjhwar live in Chhattisgarh state in various districts.

• While celebrating various festivals and marriage ceremonies these tribes also perform dance, drama and music with singing and drumming.

• Hindustani classical music is the classical music of the northern regions of the Indian subcontinent.

• It may also be called North Indian classical music or, in Hindustani, shastriya sangeet.

• Its origins date from the 12th century CE, when it diverged from Carnatic music, the classical tradition in South India.

Q77. Answer: (c) Agra

The correct answer is Agra Gharana.

Key Points

• The Agra Gharana places great importance on developing forcefulness and deepness in the voice so that the notes are powerful and resonant. Exponents -The important singers of this Gharana are Faiyyaz Khan, Latafat Hussein Khan, and Dinkar Kakini.

• The Agra gharana is a tradition of Hindustani classical vocal music descended from the Nauhar Bani.

• So far, Nauhar Bani has been traced back to around 1300 AD, during the reign of Emperor Allauddin Khilji of Delhi.

• The first known musician of this tradition is Nayak Gopal.

• Agra Gharana is a blend of Khayal Gayaki and Dhrupad-Dhamar.

• The music of Agra Gharana finds its place in almost all the important musical functions throughout the country.

Additional Information

• The Patiala gharana is one of the vocal gharanas of Hindustani classical music, named after the city of Patiala in Punjab, India.

• The Mewati gharana is a musical apprenticeship tribe of Hindustani classical music. Known for being Pandit Jasraj's musical lineage, the gharana was founded by brothers Utd. Ghagge Nazir Khan and Utd. Wahid Khan of Indore in the late 19th century at the Holkar Court.

• The Benares gharana is one of the six most common styles of playing the Indian tabla.

Q78. Answer: (a) Harivansh Rai Bachchan

The correct answer is Harivansh Rai Bachchan.

Key Points

• In the Afternoon of Time: An Autobiography, by Harivansh Rai Bachchan.

• Harivansh Rai Bachchan was an Indian poet and writer of the Nayi Kavita literary movement (romantic upsurge) of early 20th century Hindi literature.

• He was also a poet of the Hindi Kavi Sammelan.

• He is best known for his early work Madhushala.

• With a literary career spanning 60 years, Bachchan wrote over 30 poems, each inundated with powerful imagery and reflective of the time's socio-political ethos.

• Additional Information

• Ruskin Bond's autobiography, "Lone Fox Dancing: My Autobiography" has been awarded this year's Atta Galatta-Bangalore Literature Festival Book Prize in the non-fiction category.

• Rasipuram Krishnaswami Laxman was an Indian cartoonist, illustrator, and humorist.

• RK Laxman also wrote the novels The Hotel Riviera (1988) and The Messenger (1993) and an autobiography, The Tunnel of Time (1998).

• R.K Narayan published his final book, Grandmother's Tale.

Q79. Answer: (a) Usain Bolt

The correct answer is Usain Bolt.

Key Points

• Autobiography of the fastest runner ever and a superstar whose talent and charisma have made him one of the most famous people on the planet.

• Bolt holds the 100m, 200m and 4×100m records at both the Olympic and World Championships.

• He is the world record holder in the 100 m, 200 m, and 4 × 100 m relay.

• An eight-time Olympic gold medalist, Bolt is the only sprinter to have won the Olympic 100m and 200m titles in three consecutive Olympics (2008, 2012 and 2016).

• Additional Information

• Justin Gatlin is one of the most controversial athletes in athletics.

• United States Justin Gatlin won the men's 100 meters final at the Olympic Stadium during the 2004 Olympic Games in Athens.

• Christian Coleman is an American professional track and field sprinter who competes in the 100 meters and 200 meters.

• Michael Arthur Norman Jr. is an American sprinter. He is the world record holder in indoor 400 meters in 44.52 seconds.

Q80. Answer: (b) marginal propensity to consume

The correct answer is marginal propensity to consume.

Key Points

• In economics, marginal propensity to consume (MPC) is defined as the proportion of a cumulative increase in wages that a consumer spends on the consumption of goods and services, as opposed to saving.

• Marginal propensity to consume is a component of Keynesian macroeconomic theory and is calculated as the change in consumption divided by the change in income.

• The MPC is represented by a consumption curve, which is a sloping line showing changes in consumption on the vertical "Y" axis and changes in income on the horizontal "X" axis.

MPS varies by income level.

Additional Information

• The principle of "marginal consumption efficiency" was introduced by John Maynard Keynes, and explained as "the rate of discount which equals the present value of a series of annuities given by the expected return from a capital asset over its time period". Is. Its supply is equal to the price.

• Marginal consumption efficiency (MEC) is the discount rate that equates the price of a fixed capital asset to its present discounted value of expected income.

• Marginal consumption savings (MPS) refers to the proportion of the total increase in income that a consumer saves rather than spends on the consumption of goods and services.

Hence The proportion of a small increase in income which will lead to increased consumption expenditure is known as marginal propensity to consume.

Q81. Answer: (a) Mithali Raj

The correct answer is Mithali Raj.

Key Points

• Mithali Dorai Raj (born 3 December 1982) is an Indian cricketer who plays as a right-handed batter.

• She played for India between 1999 and 2022 and captained the side between 2004 and 2022.

• Mithali is the highest run-scorer in women’s international cricket and is considered to be one of the greatest female cricketers ever.

• Mithali holds many records in international cricket.

• She is the only female cricketer to surpass the 7,000 run mark in Women's One Day International matches.

• Additional Information

• Avani Lekhara is an Indian Paralympian and rifle shooter.

• She won a Gold Medal in 10m air rifle standing and a Bronze Medal in 50m rifle 3 positions at Tokyo 2020 Paralympics.

• Sumit Antil is an Indian Paralympian and javelin thrower.

• He won a gold medal in the men's javelin throw F64 category at the 2020 Summer Paralympics.

• Neeraj Chopra is an Indian track and field athlete who is the reigning Olympic champion and world championship silver medalist in the javelin throw.

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Q82. Answer: (b) Assam

The correct answer is Assam.

Key Points

• They prefer to call themselves Karbi, and sometimes Arleng(literally "man" in the Karbi language).

• Karbi people are the main tribe of Karbi Anglong and West Karbi Anglong districts of Assam.

• As a traditional costume, the Karbi bride-groom wears the ricong (loin cloth), Choihongthor (sleeveless jacket), and turban (poho).

• During the marriage, they wear the white colored poho called poho-ke-lok.

• Nowadays they use cheleng pekok as dhoti in place of the traditional rickong.

• Additional Information

• In Sikkim, there are three ethnic groups in Sikkim- Lepchas, Bhutias, and Nepalese.

• The three ethnic groups of people represent a synthesis of three diverse cultures, traditions, and religions in Sikkim.

• The Seemanchal region of Bihar, which comprises four districts - Katihar, Kishanganj, Araria, and Purnea - has a majority of tribes.

• Uttar Pradesh_The State has a total of five (5) Scheduled Tribes and all of them have been enumerated in the 2011 census.

• The tribal population of the State is predominantly rural with 88.8 percent of them residing in villages.

Q83. Answer: (c) 11

The correct answer is 11.

Key Points

• A typical Cricket game has 11 players on each team.

• It is fundamentally very similar to baseball.

• It is played with a bat and a ball.

• The center of the field is a rectangular area of 22 meters called a pitch.

• Cricket is a bat-and-ball game played on a cricket field (see image, right) between two teams of eleven players each.

• If the batsman is ill or injured they are considered retired - not out and are permitted to return to batting if they recover before the end of the innings.

• Additional Information

• Hockey_ Each team consists of 11 players, one goalkeeper, and 10 outfield players.

• Football _A match is played by two teams, each with a maximum of eleven players; one must be the goalkeeper.

• Badminton_You can have either two or four players on a badminton court: one player on each side, or a team of two players on each side.

• Kabaddi_Here are 12 players on each team. In which 7 players in each team play inside the court, which is called starting seven.

• The rest of the 5 players on each team are substitutes.

Q84. Answer: (c) Shobhaa De

The correct answer is Shobhaa De.

Key Points

• Shobhaa De is a freelance journalist and writer.

• She also worked as a model in the past and has been working in the field of writing for the last four decades.

• Shobhaa De has edited popular magazines such as Celebrity, Stardust, and Society.

• She is best known for her depiction of socialites and sex in her works of fiction.

• Additional Information

• Anita Nair is an Indian novelist who writes her books in English.

• She is best known for her novels A Better Man, Mistress, and Lessons in Forgetting.

• Nikita Singh is an Indian writer.

• She has written twelve books as well as The Reason is You, Every Time It Rains, Like a Love Song, The Promise, and After All This Time.

• Judy Balan is a comedy writer and author who debuted with the bestselling novel Two Fates: The Story of My Divorce, a parody of Chetan Bhagat's Two States: The Story of My Marriage.

Q85. Answer: (d) Arunachal Pradesh

The correct answer is Arunachal Pradesh.

Key Points

• Namcha Barwa is a mountain peak in Tibetian Himalayas with a height of 7757 meters.

• The Tsangpo - Brahmaputra river takes a U-turn on reaching the Namcha Barwa and enters India in Arunachal Pradesh through a gorge.

• Here, it is called the Dihang and it is joined by the Dibang, the Lohit, and many other tributaries to form the Brahmaputra in Assam.

• The undercutting done by this river is of the order of 5500 meters.

Additional Information

• The Tlawng is a river in Mizoram, northeastern India. Its tributaries include the Tut, Teirei, and the Ngashih.

• The city of Aizawl lies in the Tlawng valley.

• The Brahmaputra is the main river and the lifeline of Assam; it has thirteen tributaries.

• The major rivers of Nagaland are Doyang, Dikhu, Dhansiri, Tizu, Milak, Dzu, Langlong, Zungki, Likimro, Lanye and Dzuza. There are other lesser known rivers in Nagaland such as Manglu, Tsurong, Nanung, Tsurang or Disai, Tsumok, Menung etc.

Q86. Answer: (b) J Robin Warren

The correct answer is Robin Warren.

Key Points

• Robin Warren: The Nobel Prize in Physiology or Medicine 2005 was awarded jointly to Barry J. Marshall and J. Robin Warren "for their discovery of the bacterium Helicobacter pylori and its role in gastritis and peptic ulcer disease."

• John Robin Warren AC is an Australian pathologist.

• Previously it was believed stomach ulcers were caused by stress.

• The most usual causes of peptic ulcers are infection with the bacterium Helicobacter pylori (H. pylori) and the durable use of nonsteroidal anti-inflammatory drugs (NSAIDs) such as ibuprofen (Advil, Motrin IB, others) and naproxen sodium (Aleve).

• Stress and spicy foods do not cause peptic ulcers.

• Additional Information

• Paul Christian Lauterbur was an American chemist who got the Nobel Prize in Physiology or Medicine in 2003.

• Codirector Richard Axel won a Nobel Prize in 2004 for his groundbreaking work in decoding olfaction, our sense of smell.

• Oliver Smithies was a British-American geneticist and physical biochemist.

• He is known for introducing starch as a medium for gel electrophoresis in 1955.

Q87. Answer: (b) Mohiniyattam

The correct answer is Mohiniyattam.

Key Points

• Kalamandalam Kallyanikutty Amma was an epoch-making Mohiniyattam danseuse from Kerala in southern India.

• Mohiniyattam is a classical Indian dance, which by definition traces its repertoire to the foundational text Natya Shastra.

• The Natya Shastra text is attributed to the ancient scholar Bharata Muni.

• Its first complete compilation is dated to between 200 BCE and 200 CE, but estimates vary between 500 BCE and 500 CE.

• Additional Information

• Sattriya or Sattriya Nritya is a major Indian classical dance.

• Odissi also mention as Orissa in old literature is a major old Indian classical dance that originated in the Hindu temples of Odisha.

• Kathak is one of the eight major forms of Indian classical dance. It is the classical dance form of Uttar Pradesh.

• The origin of Kathak is traditionally assigned to the traveling bards in ancient northern India.

Q88. Answer: (c) Mallika Sarabhai

The correct answer is Mallika Sarabhai.

Key Points

• Mallika Sarabhai received her first award in 1977.

• She was the recipient of the "French Palme D'or", and in Paris she was honoured as the 'Best Soloist Artist' among 400 dancers from 25 countries among other awards.

• Personally, she is a strong character with her own ideas and she feels that dance is a living language that you can interpret the way you think best.

• Mallika Sarabhai, one of the leading exponents of Bharatnatyam and Kuchipudi, is the daughter of the dancing legend Mrinalini Sarabhai and the renowned scientist Vikram Sarabhai.

Additional Information

• Chitra Visweswaran is an Indian Bharata Natyam dancer who runs a dance school, the Chidambaram Academy of Performing Arts, in Chennai.

• Oopalee Operajita is a elder advisor to Indian parliamentary and world leaders on public policy and international relations, and a classical Odissi and Bharatanatyam dancer and choreographer.

• Dancing beauty Kavya Madhavan is a trained classical dancer. She has received many accolades for her dancing talent.

Q89. Answer: (b) Sir JJ Thomson

The correct answer is Sir JJ Thomson.

Key Points

• The Nobel Prize in Physics 1906 was awarded to Joseph John Thomson "in recognition of the great merits of his theoretical and experimental investigations on the conduction of electricity by gases."

• Thomson was also a teacher, and nine of his mentees also went on to win Nobel Prizes.

• The experiment Cathode Ray Tube (CRT) conducted by J. J. Thomson, is one of the most well-known physical experiments that led to electron discovery.

• In addition, the experiment could describe characteristic properties, in essence, its affinity to positive charge, and its charge to mass ratio.

• J.J. Thomson's experiments with cathode ray tubes showed that all atoms contain tiny negatively charged subatomic particles or electrons.

Additional Information

• André-Marie Ampère, was a French physicist who founded and named the science of electrodynamics, now known as electromagnetism.

• Albert Einstein was a German-born theoretical physicist, widely acknowledged to be one of the greatest and most influential physicists of all time.

• Alessandro Volta, was an Italian physicist whose invention of the electric battery provided the first source of continuous current.

Q90. Answer: (c) Ramakrishnabuva Vaze

The correct answer is Ramakrishnabuva Vaze.

Key Points

• Ramakrishnabuva Vaze earned appreciation within and outside India.

• The ruler of Nepal honored him and appointed him as a court musician.

• He cut a number of commercial discs, which became immensely popular.

• He wrote the musical work 'Sangeet Kala Prakash'.

• Additional Information

• Prabhu Atre (born 13 September 1932) is an Indian classical vocalist from the Kirana Gharana.

• Pandit Jasraj was an Indian classical vocalist, belonging to the Mewati Gharana. His musical career spanned 75 years resulting in national and international fame, respect, and numerous major awards and accolades.

• Pandit Kumar Gandharva originally known as Shivaputra Siddharamayya Komkalimath was an Indian classical singer, well known for his unique vocal style and for his refusal to be bound by the tradition of any gharana.

Q91. Answer: (c) 47

The correct answer is 47.

Key Points

• As per the order issued by the Delimitation Commission in 2008, 412 are general, 84 seats are reserved for Scheduled Castes, and 47 seats for the Scheduled Tribes.

• For the 15th Lok Sabha elections, the number of seats reserved for scheduled tribes increased from 41 to 47.

• Reservation in India is all about reserving access to seats in government jobs, educational institutions, and even legislatures to certain sections of the population.

• Also known as affirmative action, the reservation can also be seen as positive discrimination.

Additional Information

• Article 334 of the Constitution lays down the provisions of the Constitution relating to the reservation of seats for the Scheduled Castes and the Scheduled Tribes.

• All voters, including Non-SC, and Non-ST community voters, have the right to vote for these candidates belonging to SC or ST candidates if contesting from their constituency. About 25% of the Indian population belongs to SC/ST communities.

• About the same ratio of seats are reserved for them in the Parliament.

Q92. Answer: (d) 11

Correct answer is 11.

Key Points

• Each team consists of 11 players, one goalkeeper, and 10 outfield players.

• The outfield positions include defenders, midfielders, and attackmen.

• The amount of which positions on the field varies based on the style a team adopts and who has the ball.

• The 3-4-3 formation splits up the 10 field players into three defenders (Centre Back, Right Back, and Left Back), four midfielders (Defensive Midfielders x 2 and Attacking Midfielders x 2), and three strikers (Centre Forward, Right Wing, and Left Wing).

Additional Information

• A typical Cricket game has 11 players in each team. It is fundamentally very similar to baseball. It is played with a bat and a ball. The center of the field is a rectangular area of 22 meters called a pitch.

• In a football match, each of the two competing teams can have a maximum of 11 players on the field at any time. One of these has to be a goalkeeper while the other 10 are outfield players.

• There are seven players in the kabaddi team on each side and the team that outs all the players on the opponent's side scores four extra points.

Q93. Answer: (b) Gold

Correct answer is Gold.

Key Points

• Gold is element 79 and its symbol is Au.

• Though the name is Anglo Saxon, gold originated from the Latin Aurum, or shining dawn, and previously from Greek.

• Gold conducts heat and electricity.

• Gold is ductile: It can be drawn out into the thinnest wire.

• Gold is highly reflective of heat and light.

• The first Gold coins appeared around 700 BC.

• Additional Information

• Argon (Ar), chemical element, inert gas of Group 18 (noble gases) of the periodic table, terrestrially the most abundant and industrially the most frequently used of the noble gases.

• Aluminum (Al), also spelled aluminum, chemical element, a lightweight silvery-white metal of main Group 13 (IIIa, or boron group) of the periodic table.

• Silver is a chemical element with the symbol Ag and atomic number 47. Classified as a transition metal, Silver is a solid at room temperature.

Q94. Answer: (a) Rajasthani folk music

Correct answer is Rajasthani folk music.

Key Points

• Sartaj and Sarwar are two of the youngest boys to have earned a position in Rajasthani folk singing. Sarwar Khan is a 12-year-old boy and Sartaj Khan is only 11 years old.

• • Swaroop Khan is an Indian playback folk singer from Rajasthan He is known for his popular songs "Tharki Chokro" in PK and Ghoomar in Padmaavat.

• • Mame Khan is an Indian playback and folk singer from Rajasthan, India. He has been a playback singer for numerous Hindi films.

• Additional Information

• India has been blessed with a number of renowned classical vocalists like Ananda Shankar, Tansen, Tyagaraja, Begum Akhtar, Swathi Thirunal, Ghulam Ali Khan, Girija Devi, and so on.

• The most common percussion instruments in the orchestra include the timpani, xylophone, cymbals, triangle, snare drum, bass drum, tambourine, maracas, gongs, chimes, celesta, and piano.

• The strings are the largest family of instruments in the orchestra and they come in four sizes: the violin, which is the smallest, viola, cello, and the biggest, the double bass, sometimes called the contrabass.

Q95. Answer: (b) Kalbeliya

The correct answer is Kalbeliya.

Key Points

• An epitome of women's empowerment, she went on to evolve her own individual style and school of dancing, based on the Kalbaliya form, and received global fame and recognition.

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• Kalbelia dancer Gulabo Sapera's story is one of fortitude and not buckling under societal pressure.

• A keen proponent of the Sapera dance form of Rajasthan and has toured over 165 countries popularising it, Gulabo received the Padma Shri in 2016.

• The Kalbelia is a snake charming tribe from the Thar Desert in Rajasthan, India.

• The dance is an integral part of their culture and is performed by men and women.

• Additional Information

• Tera Tali is a famous folk dance of Rajasthan. It is Performed by the 'Kamar' tribe.

• Ghoomar or ghumar is a traditional folk dance of Rajasthan.

• Bhavai is one of the traditional folk dances of Rajasthan. This is a very difficult form of dance and can only be performed by skilled artists.

• Vilasini Natyam, Bhamakalpam, Veeranatyam, Dappu, Tappeta Gullu, Lambadi, Dhimsa, Kolattam. Bihu, Bichhua, Natpuja, Maharas, Kaligopal, Bagurumba, Naga dance, Khel Gopal. Jhumar, Phag, Daph, Dhamal, Loor, Gugga, Khor are famous Folk dances in India.

Q96. Answer: (d) Deciduous Forest Biomes

The correct answer is Deciduous Forest Biomes.

Key Points

• Deciduous forests are found in regions of the Northern Hemisphere that have moist, warm summers, and frosty winters—primarily in eastern North America, eastern Asia, and western Europe.

• The temperate deciduous forest biome in North America occupies most of the eastern part of the United States and a small strip of southern Ontario.

• Temperate deciduous forest is found in essentially all of the eastern United States, much of Europe, and throughout Asia and Japan, in those areas that receive somewhere between 30-75" of rain per year.

• North America is broadly categorized into six major biomes, that is the Tundra biome, the Coniferous forest biome, Prairie biome, Deciduous forest biome, the Desert biome, and the Tropical rainforest biome.

Additional Information

• The tropical rainforest is a hot, moist biome where it rains all year long. It is known for its dense canopies of vegetation that form three different layers.

• The coniferous forest contains evergreen trees that bear cones. Elegant pines grow in this biome, along with spruce, fir, and tamarack.

• The aquatic biome is divided into freshwater and marine regions. Freshwater regions, such as lakes and rivers, have a low salt concentration.

Q97. Answer: (a) Mount Kilimanjaro in Africa

Correct answer is Mount Kilimanjaro in Africa.

Key Points

• Mount Kilimanjaro is the African continent's highest peak at 5,895 meters (19,340 feet). The majestic mountain is a snow-capped volcano.

• Located in Tanzania, Mount Kilimanjaro is Africa's tallest mountain at about 5,895 meters (19,340 feet).

• Mount Kilimanjaro formed as a result of active continental rifting and is comprised of three volcanic cones.

• Volcanic activity is thought to have commenced around 1 million years ago when molten lava began to burst through fractures created by the progressively thinning lithosphere.

• Additional Information

• The Rocky Mountains formed 80 million to 55 million years ago during the Laramide orogeny, in which a number of plates began sliding underneath the North American plate.

• The Urals are among the world's oldest existing mountain ranges, having been formed about 275 million years ago due to the collision of the Laurussia supercontinent with the continent of Kazakhstania.

• The Alps in Europe _The mountains were formed over tens of millions of years as the African and Eurasian tectonic plates collided. Extreme shortening caused by the event resulted in marine sedimentary rocks rising by thrusting and folding into high mountain peaks such as Mont Blanc and the Matterhorn.

Q98. Answer: (d) Padma Bhushan

The correct answer is Padma Bhushan.

Key Points

• Vempati Chinna Satyam was conferred with many titles and awards such as "Sangeet Peeth of Bombay", "Asthana Natyacharya of Tirumala Tirupati Devasthanam",and many more.

• He was awarded by many state governments of India such as "Kalidas Puraskar" by the government of madhya pradesh and kalaimamani by government of tamil nadu.

• The Padma Awards are one of the highest civilian honours of India announced annually on the eve of Republic Day.

• The Awards are given in three categories: Padma Vibhushan, Padma Bhushan and Padma Shri

• The Padma Bhushan represents the third highest civilian award in the Republic of India and is awarded to recognize distinguished service of a high order to the nation, in any field.

Additional Information

• The Padma Vibhushan ("Lotus Decoration") is the second-highest civilian award of the Republic of India, after the Bharat Ratna.

• Instituted on 2 January 1954, the award is given for "exceptional and distinguished service".

• Padma Shri, is the fourth-highest civilian award of the Republic of India, after the Bharat Ratna, the Padma Vibhushan and the Padma Bhushan.

• Sangeet Natak Akademi (The National Academy of Music, Dance and Drama in English) is the national level academy for performing arts set up by the Government of India.

Q99. Answer: (c) Bhavina Patel

the correct answer is Bhavina Patel

Key Points

• Bhavina Patel is an Indian parathlete and table tennis player from Mehsana, Gujarat

• She won a silver medal in Class 4 Table tennis at the 2020 Summer Paralympics in Tokyo.

• In the Tokyo 2020 Paralympics, she reached the semi-finals after defeating Borislava Rankovic and won the silver medal after being defeated by Zhou Ying.

• she has been conferred with the Arjuna award in recognition of her achievements in the field of sports (Table Tennis), from the President of India.

Additional Information

• Sharath won the men's singles gold in the 16th Commonwealth table tennis championship held in Kuala Lumpur in 2004.

• He is a recipient of the Arjuna award for the year 2004.

• Manika Batra is an Indian Table Tennis player. As of November 2020, she is the top-ranked female table tennis player in India and ranked 50th in the world as of March 2022. She was awarded the Major Dhyan Chand Khel Ratna award in 2020.

• Salim Durani was the first player to win the Arjuna Award for Cricket. Instituted in 1961, the Arjuna Award comprises a bronze statuette of Arjuna, certificate, ceremonial dress, and a cash prize of Rs. 15 lakh.

Q100. Answer: (b) Potash alum

The correct answer is Potash alum.

Key Points

• Potash alum is a chemical compound widely used as the potassium sulfate dodecahydrate.

• It is double salt that is used commonly in medicine and the water treatment process.

• Potash alum is also known as potassium alum or potassium aluminum sulfate

• The chemical formula of potash alum is $K_2SO_4.Al_2(SO_4)_3$.

Additional Information

• Gypsum

• It is a soft sulfate mineral composed of calcium sulfate dihydrate, with the chemical formula $CaSO_4 \cdot 2H_2O$. It is widely mined and is used as a fertilizer and as the main constituent in many forms of plaster, blackboard or sidewalk chalk, and drywall.

• Epsom salt

• it is also known as magnesium sulfate. It's a chemical compound made up of magnesium, sulfur, and oxygen. It gets its name from the town of Epsom in Surrey, England, where it was originally discovered. Despite its name, Epsom salt is a completely different compound than table salt.

• Celestine

• it is (the IMA-accepted name) or celestite is a mineral consisting of strontium sulfate ($SrSO_4$). The mineral is named for its occasional delicate blue color. Celestine and the carbonate mineral strontianite are the principal sources of the element strontium, commonly used in fireworks and in various metal alloys.

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