SSC CHSL Tier-1 2021: Official Paper (Held On : 10 June 2022 Shift 1) (Previous Year Paper)

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

Take this paper as a timed mock test

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ENGLISH LANGUAGE

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

Affront

(a) Depress
(b) Fall
(c) Insult
(d) Tolerate

Q2. Select the INCORRECTLY spelt word.

(a) Particular
(b) Queu
(c) Recommend
(d) Opposition

Q3. Spot the error in the given sentence and select the correct sentence from the options given.

As soon as we went for an afternoon siesta, my pet rabbit Tia digged a huge hole right in the middle of the lawn.

(a) As soon as we were going for an afternoon siesta, my pet rabbit Tia digged a huge hole right in the middle of the lawn.
(b) As soon as we went for an afternoon siesta, my pet rabbit Tia dug a huge hole right in the middle of the lawn.
(c) As soon as we gone for an afternoon siesta, my pet rabbit Tia digged a huge hole right in the middle of the lawn.
(d) As soon as we gone for an afternoon siesta, my pet rabbit Tia dug a huge hole right in the middle of the lawn

Q4. Select the option that expresses the given sentence in active voice.

My pocket has been picked.

(a) Someone’s pocket has been picked by me.
(b) Someone had my pocket picked.
(c) Someone has picked my pocket.
(d) I picked someone’s pocket.

Q5. Select the most appropriate option that can substitute the underlined segment in the given sentence.

She should run the fast to win the race

(a) the fastest
(b) more fast
(c) a fastest
(d) the faster

Q6. Select the most appropriate synonym of the given word.

Ravenous

(a) Commodious
(b) Iniquitous
(c) Scrumptious

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(d) Esurient

Q7. Select the most appropriate meaning of the given idiom.

Strain every nerve

(a) To have ill health
(b) To feel physical pain
(c) To try extremely hard to do something
(d) To fight with friends

Q8. Select the most appropriate option to fill in the blank.

I never could quite get the idea _____ my mind that I should do some teaching, yet I felt a great deal of satisfaction with the pastorate.

(a) out of
(b) out act
(c) out come
(d) out cast

Q9. Select the most appropriate option that can substitute the underlined words in the given sentence.

After wearing the complete sports gear, he looked lean, tough, and sinewy

(a) a toughie
(b) wirey
(c) wiry
(d) dewy

Q10. Identify the option that arranges the given parts in the correct order to form a meaningful and coherent paragraph.

a) PB Shelly was an English poet.
b) He was expelled from Oxford for publishing a tract entitled ‘The Necessity of Atheism’.
c) He detested tyranny and institutionalised servitude.
d) Born into a wealthy upper-class family

(a) d, c, a, b
(b) a, d, c, b
(c) a, b, c, d
(d) c, a, b, d

Q11. Select the option that will improve the underlined part of the given sentence.

The movie I watched last Saturday was much better interesting than the one I watched today.

(a) much more interesting
(b) much interesting
(c) much lesser interesting
(d) much good interesting

Q12. Select the INCORRECTLY spelt word.

(a) Humiliate
(b) Ignorant
(c) Intelligent
(d) Fassinate

Q13. In the following questions a statement has been given with highlighted text. Select the options that can replace the text with correct idiom or phrase.

His mentor understood the deep anguish the student was going through without him being informed about it.

(a) Break a leg
(b) In the fast lane
(c) Read between the lines
(d) Down for the count

Q14. Select the correctly spelt word to fill in the blank.

I really admire his _____ to fulfil his dream to join navy.

(a) persistance
(b) parsistance
(c) persistence
(d) parcistanse

Q15. Select the option that can be used as a one-word substitute for the given group of words.

Looking or sounding foreign, bizarre, strange, unfamiliar

(a) Outlaw
(b) Outlay
(c) Outlast
(d) Outlandish

Q16. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

She has returned from Delhi a month ago.

(a) No substitution required
(b) would returned
(c) returned
(d) was returned

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

Tedious

(a) Slack
(b) Abstract
(c) Gallant
(d) Exciting

Q18. Select the most appropriate meaning of the given idiom.

Jump the gun

(a) To waste your money
(b) To do something stupid
(c) To defeat an opponent
(d) To do something too soon

Q19. Select the most appropriate ANTONYM of the given word.

Siege

(a) Deference
(b) Trance
(c) Clearance
(d) Inference

Q20. Select the most appropriate synonym of the word given in the brackets to fill in the blank.

When the lady answered the knock at her door she found a/an _____ (destitute) man.

(a) replete
(b) polite
(c) indigent
(d) greedy

Directions

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

First of all, planting trees should be given (1) ____ attention. Above all, tree is the (2) __ of oxygen. Unfortunately, due to (3) __

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of buildings many trees have been cut down. This (4) ____ reduces the amount of oxygen in the environment. Growing (5) ___ trees means (5) ____ oxygen. Hence, growing more trees would mean better life quality.

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

(a) lesser
(b) massive
(c) trivial
(d) minor

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

(a) source
(b) base
(c) foundation
(d) tank

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

(a) planning
(b) destruction
(c) construction
(d) renovation

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

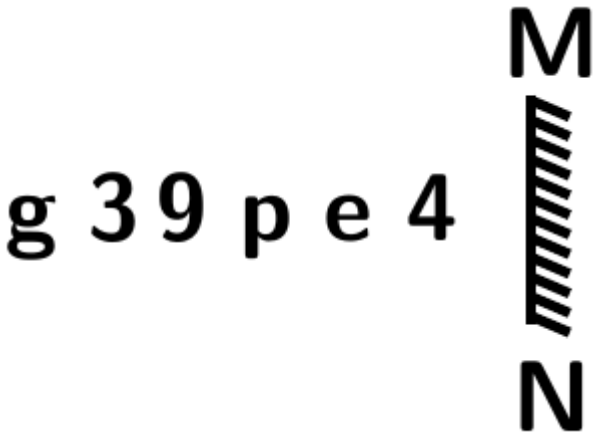
(a) certainly
(b) doubtfully
(c) rarely
(d) hardly

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

(a) no, more
(b) more, more
(c) less, more
(d) more, less

GENERAL INTELLIGENCE

Q26. Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



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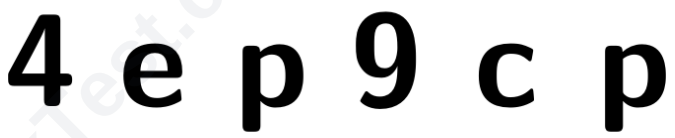
(a)



(b)



(c)



(d)



Q27. Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

AYC, EUG, IQK, MMO, ?

(a) IQS
(b) QIS
(c) SIQ
(d) ISQ

Q28. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Perilous
2. Pessimist
3. Pedestrian
4. Perceive
5. Perfect
6. Peasant

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

Q29. Select the option that represents the letters that, when placed from left to right in the blanks, will complete the letter series.

M _ W Q U N S _ Q U O S W _ U P S _ Q _

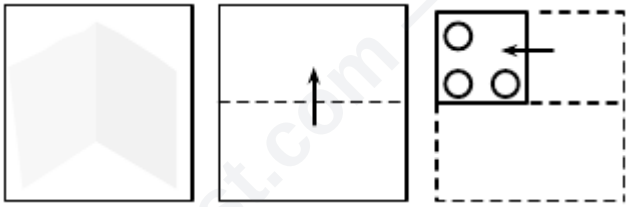
(a) S Q U W W

(b) S Q W U W
(c) S W Q W U
(d) S W Q U W

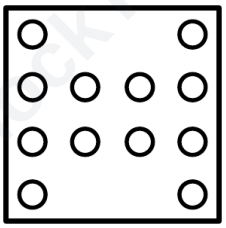
Q30. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) are followed in all the number pairs except one. Find that odd number pair.

(a) 678 : 7
(b) 282 : 6
(c) 366 : 5
(d) 546 : 5

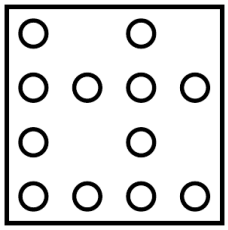
Q31. A paper is folded and cut as shown. How will it appear when unfolded?



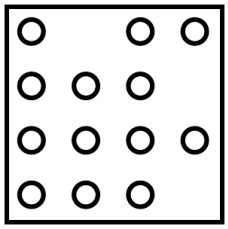
(a)



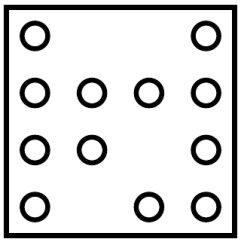
(b)



(c)



(d)



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

42 * 19 * 4 * 69 * 81 * 9 * 58

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

Q33. Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

40 * 2 * 15 * 30 * 5

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

Q34. 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) 40 : 240
(b) 25 : 150
(c) 35 : 280
(d) 30 : 180

Q35. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

27 : 99 :: 21 : ? :: 13 : 43

(a) 75
(b) 64
(c) 87
(d) 82

Q36. The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs, except one. Find that odd number-pair.

×

something went wrong

(a) 12 : 121
(b) 6 : 25
(c) 9 : 100
(d) 8 : 49

Q37. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row: 5, 9, 56

Second row: 4, 7, 33

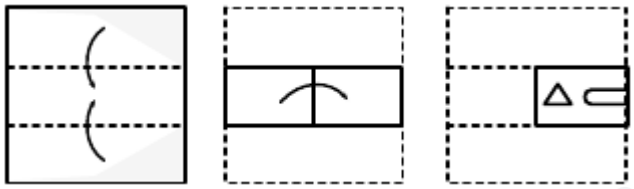
Third row:10, 11, ?

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

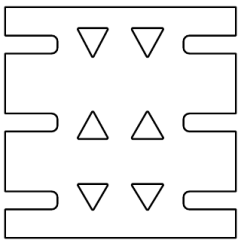
(a) 30
(b) 26
(c) 23
(d) 21

Q38. A paper is folded and cut as shown below. How will it appear when unfolded?

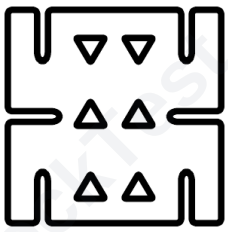
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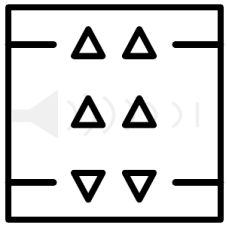
(a)



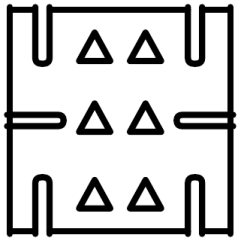
(b)



(c)



(d)



Q39. In a certain code language, 'MAP' is written as 'QBN' and 'LEAP' is written as 'QBFM'. How will 'CROWN' be written in that language?

(a) OXPDS
(b) OXPSD
(c) OPDXS
(d) ODXSP

Q40. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some boxes are houses.

Some houses are tents.

Some tents are castles.

Conclusions:

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I. Some castles are houses.

II. Some tents are houses.

III. Some castles are boxes

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

Q41. Seven friends P, Q, R, S, T, U and V, each has a different height. P is taller than only U and R. R is taller than U. Q is taller than S but shorter than T. T is not the tallest among all. The height of how many people is between the heights of Q and R?

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

Q42. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

First row- 5, 16, 77

Second row- 13, 12, ?

Third row- 8, 19, 149

(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)

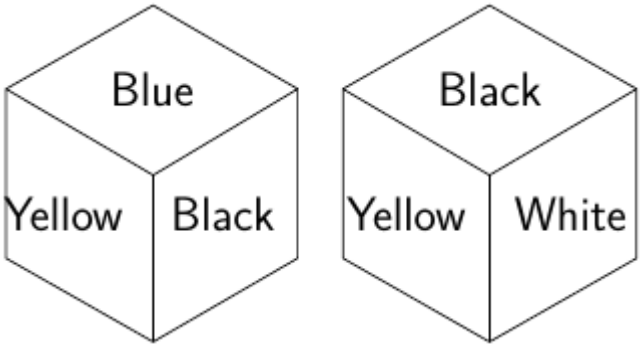
(a) 157
(b) 153
(c) 151
(d) 155

Q43. 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.

6 : 40 :: ? : 148 :: 3 : 13.

(a) 13
(b) 12
(c) 17
(d) 14

Q44. Two different position of the same dice are shown, the six faces of which are coloured Red, Green, Blue, Yellow, Black, White. Select the colour that will be on the face opposite to the one coloured Blue.



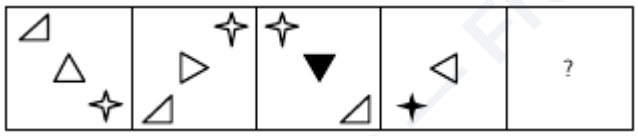
(a) Green
(b) White
(c) Black
(d) Red

Q45. 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.

GAINS : SNIAG :: ANVIL : LIVNA :: INBOX : ?

(a) XOBNI
(b) BINOX
(c) ONBIX
(d) OXBIN

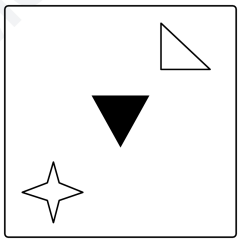
Q46. Select the figure from among the given options that can replace the question mark (?) in the following series.



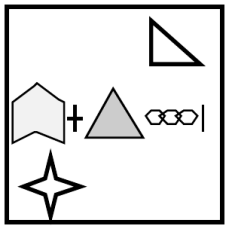
(a)



(b)



(c)



(d)



Q47. Which of the following numbers will replace the question mark (?) in the given series?

283, 359, 428, 490, 545, ?

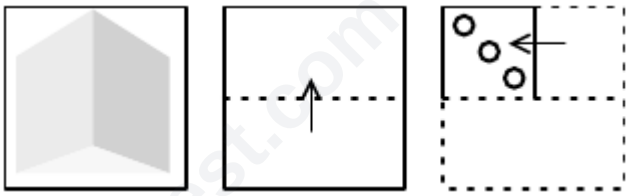
(a) 593
(b) 613
(c) 600
(d) 563

Q48. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

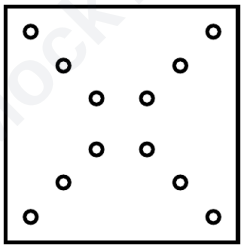
1. Dictation
2. Dictator
3. Distribute
4. Decadent
5. Distilled

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

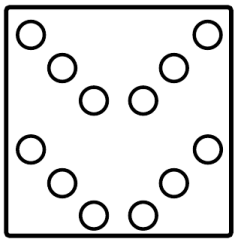
Q49. A paper is folded and cut as shown. How will it appear when unfolded?



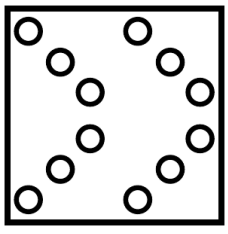
(a)



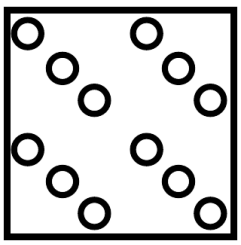
(b)



(c)



(d)



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Q50. In a certain code language, “EASY” is written as “YAES”, and “KIND” is written as “DIKN”. How will “SOME” be written in that language?

(a) WSOM
(b) EOSM
(c) EOMS
(d) OESM

QUANTITATIVE APTITUDE

Q51. Based on the data given in the following table find the arithmetic mean of the marks obtained out of 10 in a class test by the students of a class.

Marks obtained out of 10 in a class test	Frequency
0	3
1	2
2	2
3	4
4	6
5	7
6	7
7	5
8	3
9	4
10	2

Find out the arithmetic mean.

(a) 5.1
(b) 5.4
(c) 5.2
(d) 5

Q52. Simplify the following expression.

(1/2 × 1/2 × 1/2) + (3/2 × 3/2 × 3/2) ~ + (6 × 6 × 6) + 3 × (1/2 + 3/2)(1/2 + 6)(6 + 3/2)

(a) 521
(b) 64
(c) 512
(d) 256

Q53. A vendor bought oranges at 5 for Rs. 15 and sold them at 3 for Rs. 5. Find his loss percent.

(a) 414/9 %
(b) 424/9 %
(c) 434/9 %
(d) 444/9 %

Q54. For the first part of her journey, Sunita traveled at a speed of 450 m/min and, for the rest of the journey, at a speed 1.4 times her initial speed. If Sunita traveled a total distance of 33.3 km in 1 hour, what was the distance that Sunita traveled at a lower speed?

(a) 11.50 km
(b) 11.15 km
(c) 11.25 km

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(d) 11.20 km

Q55. 40 men can complete a piece of work in 18 days. 9 days after they start working together, 5 more men join them. How many days will they now take to complete the remaining work?

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

Q56. A sum of money is invested at a rate of compounded interest that is paid out yearly. In the first two years, the interest was Rs. 400 and Rs. 420 respectively.The sum is

(a) Rs. 7,500
(b) Rs. 9,530
(c) Rs. 8,000
(d) Rs. 8,765

Q57. A man spends 20% of his monthly salary on food and one-fourth of the remaining salary on charity. If he saves Rs. 9,600 per month, which is equal to half of the balance after spending on food and charity, then his monthly salary is:

(a) Rs. 28,000
(b) Rs. 32,000
(c) Rs. 26,000
(d) Rs. 30,000

Q58. What is the length of the arc of a circle whose radius is 35 cm and arc subtends an angle of 36° at the centre of the circle? (Take π=22/7)

(a) 44 cm
(b) 22 cm
(c) 10 cm
(d) 220 cm

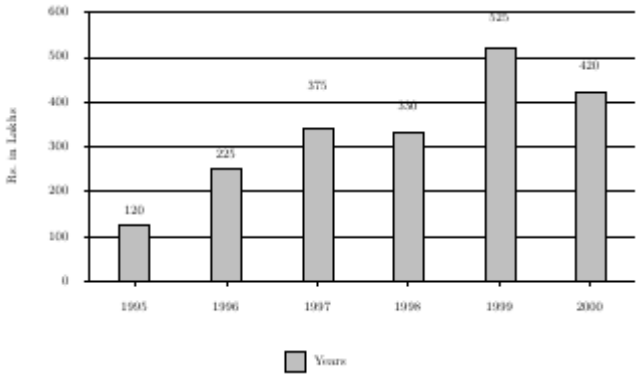
Q59. Calculate the third proportional to 4, 15, and 24.

(a) 32/5
(b) 29/5
(c) 21/5
(d) 26/5

Q60. Using the formula tan x/2 = (1 - cos x)/(sin x), find the value of tan 22.5°

(a) √2 - 1
(b) √2 + 1
(c) (√3 + √2)/2
(d) (√3 - √2)/2

Q61. Amount Invested in Raw Materials (in lakh rupees)



What is the average amount invested in raw materials from year 1997 to 1999?

(a) Rs. 310 lakh

(b) Rs. 330 lakh
(c) Rs. 400 lakh
(d) Rs. 410 lakh

Q62. Find the value of 'a' using the concept of BODMAS.

$42 \div 2 + a \times 3 - 22 = 8$

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

Q63. In an examination, the Average marks of 7 children was 20, that of 3 children was 45, that of another 4 children was 15 and that of 2 children was 0. What is the average marks of all the 16 children? (Correct to one decimal place)

(a) 20
(b) 20.9
(c) 4
(d) 4.9

Q64. A washing machine is sold at a discount of 10% on its marked price. A further discount of 5% on the initial selling price is offered if a person makes the payment in cash. If the marked price of the machine is Rs. 54,000, how much will a customer paying in cash have to pay for purchasing it?

(a) Rs. 46,200
(b) Rs. 45,800
(c) Rs. 46,170
(d) Rs. 46,000

Q65. The length, breadth and height of a room are 7 m, 4 m and 9 m, respectively. Find the cost of whitewashing the walls of the room and the ceiling at the rate of Rs. 7.50 per m^2.

(a) Rs. 1,965
(b) Rs. 1,695
(c) Rs. 1,968
(d) Rs. 1,698

Q66. Find the selling price of an article if a shopkeeper allows two successive discounts of 5% each on the marked price of Rs. 80.

(a) Rs. 76.60
(b) Rs. 72
(c) Rs. 72.20
(d) Rs. 74.40

Q67. Which of the following numbers is NOT divisible by 15?

(a) 2595
(b) 3195
(c) 3465
(d) 2995

Q68. If $\sin\theta = (\sqrt{3})/2$, and θ is an acute angle, find the value of $\cos 3\theta$.

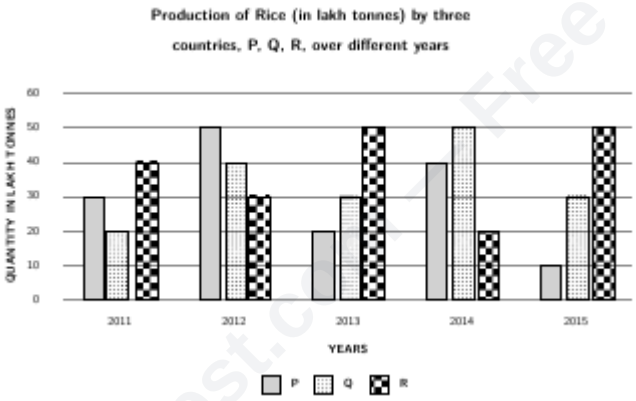
(a) ½
(b) 1
(c) • 1
(d) 0

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Q69. Simplify (5 × 5 × 5 × 5 × 5)^5 × (5 × 5 × 5)^5÷ 5 = (125)^?

(a) 15
(b) 21
(c) 13
(d) 14

Q70. Study the given graph and answer the question that follows.



For which of the following years was the percentage rise/fall in production from the previous year maximum for country R?

(a) 2013
(b) 2011
(c) 2012
(d) 2015

Q71. If the length, breadth and height of a cuboid are 7.5 m, 22 m and 13 m, respectively, then find the volume of the cuboid.

(a) 2145 m^3
(b) 1245 m^3
(c) 4215 m^3
(d) 2154 m^3

Q72. What is the average of first 10 multiples of 6?

(a) 55
(b) 66
(c) 60
(d) 33

Q73. The price of a bike is Rs. 75,500. What will be the price of the bike after a reduction of 17%?

(a) Rs. 68,650
(b) Rs. 68,680
(c) Rs. 62,665
(d) Rs. 62,650

Q74. If the compound interest on a principal for one year is Rs. 350 and the compound interest for the second year is Rs. 420, find the rate of interest.

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

Q75. The area of quadrilateral is 336 cm^2 and the perpendiculars drawn to one diagonal from the opposite vertices are 16 cm and 12 cm long. Find the length of this diagonal.

(a) 28 cm
(b) 26 cm

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(c) 21 cm
(d) 24 cm

GENERAL AWARENESS

Q76. In which of the following years was Lata Mangeshkar, a legendary playback Indian singer, awarded with the Padma Vibhushan, the second-highest Indian civilian award?
(a) 1990
(b) 1995
(c) 1999
(d) 2003

Q77. In February 2021, _____ broke into the Top-100 WTA doubles rankings, becoming the second woman, after Sania Mirza, to do so.
(a) Shikha Devi Uberoi
(b) Ankita Raina
(c) Tara Iyer
(d) Rushmi Chakravarthi

Q78. Who among the following won the prestigious Abhinandan Saroja National Award 2021?
(a) Saroja Vaidyanathan
(b) Aparna Satheesan
(c) Mrinalini Sarabhai
(d) Alarmel Valli

Q79. Identify a way that does NOT prevent a non-communicable disease from occurring in someone.
(a) Blood transfusion
(b) Adequate sleep
(c) Balanced diet
(d) Healthy diet

Q80. Identify the group of the periodic table to which iron belongs.
(a) Group 8
(b) Group 6
(c) Group 5
(d) Group 7

Q81. Who among the following is the author of the book ‘Five Point Someone’?
(a) Durjoy Dutta
(b) Chetan Bhagat
(c) Ravinder Singh
(d) Amish Tripathy

Q82. For what discovery was Jan Evangelista Purkinje known in 1839?
(a) Proposed a lipid bilayer membrane
(b) Discovered plasma membrane
(c) Coined the term protoplasm
(d) Discovered the nucleus

Q83. In which year was the Indian Football Association established?
(a) 1853
(b) 1873
(c) 1883
(d) 1893

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Q84. The Konark Dance Festival is held at an open-air auditorium in the backdrop of the _____ which is also known as the Black Pagoda.

(a) Shree Somnath Temple
(b) Sun Temple
(c) Guruvayur Temple
(d) Kamakhya Temple

Q85. Among the following, whose autobiography is ‘My Confession’?

(a) Adolf Hitler
(b) Leo Tolstoy
(c) Nelson Mandela
(d) Mahatma Gandhi

Q86. ‘Drawing From the City’ is a visual autobiography of which of the following Indian folk artists?

(a) Teju Behun
(b) Jamini Roy
(c) Bhajju Shyam
(d) Baua Devi

Q87. ‘All minorities, whether based on religion or language, shall have the right to establish and administer educational institutions of their choice’. Which article of the Constitution of India guarantees this right?

(a) Article 25
(b) Article 28
(c) Article 36
(d) Article 30

Q88. What is the common name of C6H6?

(a) Methanol
(b) Acetic acid
(c) Acetone
(d) Benzene

Q89. Phytoplankton, small sea-dwelling organisms, belong to which trophic level of the food web?

(a) Primary consumers
(b) Secondary consumers
(c) Primary producers
(d) Decomposers

Q90. Which of the following serves as the cell's digestive system, serving both to degrade material taken from outside the cell and to digest the undigested components of the cell?

(a) Ribosomes
(b) Lysosomes
(c) Smooth endoplasmic reticulum
(d) Cytosol

Q91. What is India’s rank in the 2021 Global Hunger Index?

(a) 95
(b) 90
(c) 101
(d) 99

Q92. Pandit Swapan Chaudhuri is associated with _____ instrument.

(a) veena
(b) harmonium
(c) tabla

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(d) bansuri

Q93. Who among the following became the first Indian male shuttler to win silver in the men's singles event at the BWF World Championships on December 19, 2021?

(a) HS Prannoy
(b) B Sai Praneeth
(c) Lakshya Sen
(d) Kidambi Srikanth

Q94. Who among the following founded the 'Kalakshetra' in 1936, an Indian arts academy that was especially dedicated to the cultivation of the Bharatanatyam tradition?

(a) Rukmini Devi Arundale
(b) Vidyagauri Adkar
(c) Kumari kamala
(d) Damayanti Joshi

Q95. Pankaj Advani is related to which of the following sports?

(a) Squash
(b) Billiards
(c) Tennis
(d) Chess

Q96. Which of the following is true?

(a) Gross Domestic Product + Depreciation = Gross National Product
(b) Gross Domestic Product + Depreciation = Net Domestic Product
(c) Gross Domestic Product – Depreciation = Gross National Product
(d) Gross Domestic Product – Depreciation = Net Domestic Product

Q97. Who among the following is the founder of the Indore Gharana of music?

(a) Ustad Amir Khan
(b) MS Subbulakshmi
(c) Vilayat Khan
(d) Bhimsen Joshi

Q98. Anup Jalota is famous for which of the following categories of Indian music?

(a) Bhajan
(b) Carnatic Music
(c) Hindustani Music
(d) Instrumental

Q99. Mallika Sarabhai is the most famous Indian dancer renowned for _____.

(a) kuchipudi and bharatanatyam
(b) bharatanatyam and kathak
(c) bharatanatyam and odissi
(d) kuchipudi and kathak

Q100. As per Census of India 2011, which state has the highest percentage of Scheduled Tribe population to total Scheduled Tribe population in India?

(a) Gujarat
(b) Jharkhand
(c) Madhya Pradesh
(d) Chhattisgarh

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (c) Insult

The solution is in Hindi. Read it online.

Q2. Answer: (b) Queu

The correct answer is "queu".

Key Points

• The incorrectly spelt word if corrected results in the formation of 'queue'.

• Let us understand the meaning of the correctly formed words:

• Queue: a line of people, cars, etc., waiting for something or doing something.

• Example: He retrieved a tray and headed for the queue.

• Therefore, the only incorrectly spelt word is: Queu

Additional Information

• The words 'particular, recommend, and opposition' is correctly spelt.

• Let us take a look at the meaning of correctly spelt words:

• Particular: used to emphasize that you are talking about one specific person, thing, time, etc., and not about others.

• Example: A particular style of the outfit was what she desired.

• Recommend: to say that somebody/something is good and that somebody should try or use him/her/it.

• Example: I recommend you go on a vacation for a few days.

• Opposition: the feeling of disagreeing with something and the action of trying to change it.

• Example: The opposition party members were hurling insults at each other.

Q3. Answer: (b) As soon as we went for an afternoon siesta, my pet rabbit Tia dug a huge hole right in the middle of the lawn.

The correct answer is "As soon as we went for an afternoon siesta, my pet rabbit Tia dug a huge hole right in the middle of the lawn."

Key Points

• There is an error in the verb in the second part of this sentence.

• As we can see the sentence is talking about an incident that happened in the past. When referring to previous events or conditions that are finished and over, we use the simple past tense.

• Example: I watched a movie yesterday.

• Additionally, the use of the second form of the verb "went" clearly shows that the action that took place in the sentence has been completed.

• Thus, the application of "went" is correct.

• Furthermore, the verb "dig" is also used in its V2 form as "dug." In sentences, it is used to denote the simple past tense.

• Thus, the word "digged" is incorrectly placed in the sentence so it should be replaced with "dug".

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• The correct sentence is: As soon as we went for an afternoon siesta, my pet rabbit Tia dug a huge hole right in the middle of the lawn.

Additional Information

• The V2 form and V3 forms of "dig" are the same. "Dug" refers to the V3 format. In the past or present perfect tense, the verb "dug" is employed.

• Example: He dug the candies out of his backpack.

• "Dig" is applied as "have + dug" or "has + dug" in the present perfect tense.

• Example: The floor's tiles have been dug up and piled together by the man.

• If necessary, we use "had + dug" to express the past perfect tense.

• Example: After starting the garden, they set down their shovels close to the hole they had dug.

Q4. Answer: (c) Someone has picked my pocket.

The correct answer is "Someone has picked my pocket."

Key Points

• The subject of the provided sentence is clearly being "acted upon" (or is in the passive form), so, we have to apply verbs according to the passive voice.

• Apparently, the sentence is in present perfect tense form as the event that is being talked about has already started in the past and is having an effect on the present (has + been), so we will use the following structure:

• Active Voice : Subject + has/have+ v3+ object

• Passive Voice: Object+ has/have+ been+ V3+ by + subject

• Example: Nikita has challenged Leena. (Active)

• Example: Leena has been challenged by Nikita. (Passive)

• Thus, the active voice of "My pocket has been picked" is "Someone has picked my pocket".

• Hence, the active voice is: Someone has picked my pocket.

Additional InformationLet us take a look at the remaining sentences:

• Someone’s pocket has been picked by me - This is not an active voice form as (by) is applied here.

• Someone had my pocket picked - This is in the past perfect tense (had) and we require present perfect tense (has) so this sentence is also incorrect.

• I picked someone’s pocket - This sentence is in the simple past tense (picked) and we need present perfect tense (has) so this sentence is also not appropriate.

Q5. Answer: (a) the fastest

The correct answer is "the fastest".

Key Points

• The underlined segment does need to be substituted.

• A superlative adjective conveys an attribute's extreme or maximum degree. To convey the exceptional quality of one thing among a group of things, we employ a superlative adjective (not two things).

• Evidently, a race is a competition between more than two people. Thus, we will use a superlative degree of comparison.

• Example: The lady in the main office is the smartest employee in this department.

• Furthermore, the adjective's superlative form is followed by the article "the."

• That is why "the fastest" is appropriate to apply in the sentence.

• Therefore, the substituted sentence is: She should run the fastest to win the race.

Additional Information

• Positive, comparative, and superlative degrees of comparison are the three categories for degrees of comparison.

• The degree of comparison of "fast" is:

• Positive degree: Fast

• Comparative degree: Faster

• Superlative degree: Fastest

Q6. Answer: (d) Esurient

The solution is in Hindi. Read it online.

Q7. Answer: (c) To try extremely hard to do something

The correct answer is "To try extremely hard to do something".

Key Points

• The idiom ‘strain every nerve’ refers to making the greatest possible effort.
• This expression is typically used to describe someone who, put forth their best attempt (to do something).
• As the definition of the term "strain" suggests, it is "to make a great mental or physical effort to do something."
• Example: That book was on the highest shelf, and despite straining every nerve in my body to reach it, I was unable.
• To find the perpetrator, they would strain every nerve.
• Thus, the correct meaning of the given idiom is: To try extremely hard to do something.

Additional InformationLet's look at the meaning of some idioms with the word "nerve":

Idioms	Meaning	Example
a bag of nerves	conveys nervousness about a situation	I was a bag of nerves before my job interview.
to get on somebody's nerves	to annoy somebody a lot	Living in that cramped flat together was when we truly started to get on each other's nerves.
to have nerves of steel	to be fearless and brave	I believe that every space scientist possesses nerves of steel.

Q8. Answer: (a) out of

The correct answer is "out of".

Key Points

• In the first place, "out of my mind" is a phrase that means 'stop thinking about (something)'.
• As we can see, the sentence is talking about an idea about which he/she could not stop thinking. Thus, the application of 'out of mind' is appropriate for this sentence.
• Example: Put that naughty thought out of your mind.
• Example: He took his glasses out of his bag.
• Therefore, all other alternatives are incorrect except "out of".
• The complete sentence is: I never could quite get the idea out of my mind that I should do some teaching, yet I felt a great deal of satisfaction with the pastorate.

Additional Information

• Let us understand the implication of the remaining options:
• The word "out act" means to outperform other actors in a play, movie, or other performance by being a better actor than them.
• Example: It's important for supporting actors to avoid outacting the superstars.
• The word "outcome" denotes the result or effect of an action or an event.
• Example: Your result is the outcome of your hard work.
• The word "outcast" means a person who is no longer accepted by society or by a group of people.
• Example: He was an outcast in high school.

Q9. Answer: (c) wiry

The correct answer is "wiry".

Key Points Let us understand the meaning of the correct word:

• Wiry: (used about a person) small, lean, and thin but tough.
• Example: John's physique is athletic and wiry.
• As we know, a noun or pronoun is modified or described by an adjective. Adjectives can be used to describe characteristics of something or someone on their own or in contrast to another object.
• Example: A smart girl.
• Example: A fit boy.
• Evidently in the above-mentioned sentence, "wiry" is enhancing the subject of the sentence which is 'he'.
• From the above explanation, we can decipher that ‘wiry' fits the best for the given sentence. As the words "lean, tough, sinewy" are synonyms of "wiry".
• Hence, the complete sentence is: After wearing the complete sports gear, he looked wiry.

Additional Information

• Let us understand the meaning of these words first:
• A toughie: a person who is tough and determined.

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• Example: Ben was a toughie in the competition.

• Wirey: hair that is thin and curly.

• Example: Julia has wirey hair.

• Dewy: (of a person's skin) appearing soft and lustrous.

• Example: Apply the moisturizer every day for a radiant, dewy complexion.

Q10. Answer: (b) a, d, c, b

The correct answer is "a, d, c, b"

Key Points

• The given stanza is talking about an English poet named PB Shelly so, the first sentence must be the introductory sentence of that poet.

• Sentence a, that is, ' PB Shelly was an English poet' is introducing the main subject of this paragraph. Thus, it is the first sentence.

• Sentence d, that is, 'Born into a wealthy upper-class family' is mentioning the birth and circumstances of the poet. So, this will be the second sentence.

• Sentence c, that is, 'He detested tyranny and institutionalized servitude' is continuing the story of PB Shelly and telling us how he hated tyranny. That is why this will be the third sentence.

• Sentence b, that is, 'He was expelled from Oxford for publishing a tract entitled "The Necessity of Atheism"' is the conclusive sentence and the remaining one. Thus, this will be the last sentence.

• Hence, the correct answer is: a, d, c, b

Additional Information

• As can be seen, the question given above concerns para jumbles. It describes a paragraph in which the sentences are mixed up and each is assigned a letter or number as a label.

• The following are some easy methods for resolving ParaJumbles:

• Determine the passage's aim.

• Find the keywords and indicators.

• Use nouns, pronouns, and antecedents to your advantage.

Q11. Answer: (a) much more interesting

The correct answer is "much more interesting".

Key Points

• This sentence needs improvement.

• We can't say "more better" because "better" is the comparative version of "good". So we may now say "much better." In order to convey that something is desirable, we can say "much better."

• Additionally, "much" is used to describe a lot or a bunch of anything. The comparative degree of "much or many" is the word "more." It denotes "a larger quantity" of something.

• In the above-mentioned sentence, "movie" is the noun and "interesting" is modifying "movie". So, if we will put "better" with "interesting" then the sentence will become redundant and ultimately incorrect.

• Thus, we will apply "much more interesting" in the sentence to improve it.

• The complete sentence is: The movie I watched last Saturday was much more interesting than the one I watched today.

Additional Information

• The degrees of comparison refer to how an adjective alters its form to demonstrate comparison.

• Positive, comparative, and superlative degrees of comparison are the several categories for degrees of comparison.

• The superlative form of "many/much" is "most," while the comparative form is "more."

Q12. Answer: (d) Fassinate

The correct answer is "fassinate".

Key Points

• The incorrectly spelt word if corrected results in the formation of 'fascinate'.

• Let us understand the meaning of the correctly formed words:

• Fascinate: to attract or interest somebody very much.

• Example: I was always fascinated by European culture.

• Therefore, the only incorrectly spelt word is: Fassinate

Additional Information

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• The words 'humiliate, ignorant, and intelligent' are correctly spelt.
• Let us take a look at the meaning of correctly spelt words:
• Humiliate: to make somebody feel very embarrassed.
• Ignorant: not knowing about something.
• Intelligent: having or showing the ability to understand, learn and think; clever.

Q13. Answer: (c) Read between the lines

The solution is in Hindi. Read it online.

Q14. Answer: (c) persistence

The correct answer is "persistence".

Key Points

• The words 'parsistance, persistance, and parcistanse' are incorrectly spelt, holding no appropriate meanings except 'persistence'.
• Let us take a look at the meaning of the correctly spelt words:
• Persistence: the trait that enables someone to carry on with something they are trying to do, even when it is challenging or is opposed by others.
• Example: She eventually got what she sought after being rewarded for her persistence.
• She has been quite persistent in her efforts.
• Therefore, the only correctly spelt word is: Persistence

Additional InformationSome of the synonyms of the correctly spelt word are:

• Perseverance
• Tenacity
• Determination
• Resolve
• Resolution
• Resoluteness
• Patience
• Endurance

Q15. Answer: (d) Outlandish

The correct answer is "Outlandish".

Key Points

• The given group of words needs a one-word substitute.
• The word "outlandish" means very strange or unusual; straying from the usual, customary, or anticipated.
• It also signifies weird, uncommon, peculiar, eccentric, erratic, odd, and challenging to comprehend or accept.
• Example: Her opinions on how to raise children are somewhat outlandish.
• The show became increasingly outlandish as it went on.
• Thus, the word "outlandish" is the best one-word substitute for the group of words "looking or sounding foreign, bizarre, strange, unfamiliar".
• The one-word substitute is: Outlandish

Additional InformationLets understand the meaning of the remaining words:

• Outlaw: (used in past times) a person who has done something illegal and is hiding to avoid being caught.
• Example: Outlaw Robin Hood dwelt in the woods and robbed the wealthy to distribute to the needy.
• Outlay: money that is spent, especially in order to start a business or project.
• Example: The program will require a 3.6 million dollar upfront outlay.
• Outlast: to continue to exist or to do something for a longer time than somebody/something.
• Example: He won one of the best tennis matches ever, outlasting his opponent.

Q16. Answer: (c) returned

The correct answer is "returned"

Key Points

• In the given options, the most appropriate answer is 'returned.'
• The given sentence is grammatically incorrect.

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• In the given sentence, the verb has should be removed.
• Has is used in the third person singular pronoun.
• Example: She has a great personality.
• Therefore, the correct answer is option 3.

Correct sentence: She returned from Delhi a month ago.

Q17. Answer: (d) Exciting

The correct answer is "exciting"

Key Points

• Tedious means not interesting or exciting.
• Example: Learning a new computer program can be a tedious process.
• Exciting means causing a feeling of happiness or enthusiasm.
• Example: It was a really exciting match.
• Therefore, the most appropriate antonym of the given word 'tedious' is 'exciting.'

Additional Information

• Let's look at the usage and meaning of the other words given in the options.

Words	Meaning	Example
Slack	not tight	These tent ropes are too slack.
Abstract	a short form of a speech, article, or book.	There is a section at the end of the magazine that includes abstracts of recent articles.
Gallant	polite to women, especially in public.	He was always charming and gallant towards women.

Q18. Answer: (d) To do something too soon

The correct answer is "to do something too soon"

Key Points

• The most appropriate meaning of the given idiom is 'to do something soon.'
• Jump the gun: to do something too soon, without thinking carefully about it.
• Example: Some booksellers have jumped the gun and decided to sell it early.
• Therefore as per the points mentioned above, we find that the correct answer is option 4.

Additional Information

• Let's look at the usage and meaning of some idioms.

Idioms	Meaning	Example
A piece of cake	something is very easy.	The English test was a piece of cake.
Let the cat out of the bag	to accidentally reveal a secret.	I let the cat out of the bag about their wedding plans.
To kill two birds with one stone.	to solve two problems at once.	By taking my dad on holiday, I killed two birds with one stone. I got to go away but also spend time with him.

Q19. Answer: (c) Clearance

The correct answer is "clearance"

Key Points

• The siege means the act of surrounding a place by an armed force in order to defeat those defending it.
• Example: The town was under siege.
• Marked option clearance means the process of removing things you do not want from a place.
• Example: They specialize in house clearances after a resident has died.

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• Therefore, the most appropriate antonym of the given word 'siege' is 'clearance.'

Additional Information

• Let's understand the usage and meaning of the other options.

Words	Meaning	Example
Deference	respect and politeness.	He treats her with such deference.
Trance	a temporary mental condition in which someone is not completely conscious of themselves.	He sat staring out of the window as if in a trance.
Inference	a guess that you make or an opinion that you form based on the information that you have.	They were warned to expect a heavy air attack and by inference by many casualties.

Q20. Answer: (c) indigent

The correct answer is "indigent"

Key Points

• Destitute means without money, food, a home, or possessions.

• Example: The floods left thousands of people destitute.

• Marked option indigent means very poor.

• Example: We are a non-profit agency that provides legal services to indigent clients.

• Therefore, the correct answer is option 3.

Additional Information

• Let's understand the usage and meaning of the other options.

Words	Meaning	Example
Replete	full, especially with food.	After two helpings of dessert, Sergio was at last replete.
Polite	behaving in a way that is socially correct and shows an understanding of and care for other people's feelings.	She sent me a polite letter thanking me for my invitation.
Greedy	wanting a lot more food, and money than you need.	He is greedy for power.

Q21. Answer: (b) massive

The solution is in Hindi. Read it online.

Q22. Answer: (a) source

The correct answer is "source"

Key Points

• In the given passage, the most appropriate answer for blank no. 2 is 'source.'

• Source: the cause of something.

• Example: Oranges are a good source of vitamin C.

• Therefore, as per the points mentioned above, we find that the correct answer is option 1.

Additional Information

• Let's look at the meaning of other words given in the options.

Words	Meaning	Example
Base	The bottom part of an object, on which it rests.	A crystal glass with a heavy base.
Foundation	An occasion when an organization or state is established.	The foundation of a new state.

Tank	A container that holds liquid or gas.	Oil was trickling from a tiny hole in the tank.

Q23. Answer: (c) construction

The correct answer is "construction"

Key Points

• In the given passage, the most appropriate answer for blank no. 3 is 'construction'

• Construction: the work of building or making something.

• Example: She works in the construction industry.

• Therefore, as per the points mentioned above, we find that the correct answer is option 3.

Additional Information

• Let's look at the meaning of other words given in the options.

Words	Meaning	Example
Planning	the act of deciding how to do something.	Events like these take months of careful planning.
Destruction	the act of destroying something.	Many people are very concerned about the destruction of the rainforests.
Renovation	the act of repairing and improving something.	The museum is closed for renovation.

Q24. Answer: (a) certainly

The correct answer is "certainly"

Key Points

• In the given passage, the most appropriate answer for blank no. 4 is 'certainly'

• Certainly: used when agreeing or disagreeing strongly to a request.

• Example: The design certainly looks good on paper.

• Therefore, as per the points mentioned above, we find that the correct answer is option 1.

Additional Information

• Let's look at the meaning of other words given in the options.

Words	Meaning	Example
Doubtfully	in a way that shows a feeling of doubt.	Jamie looked at her doubtfully, wanting to believe her.
Rarely	not often.	We rarely see each other now.
Hardly	almost not	I could hardly hear her at the back.

Q25. Answer: (b) more, more

The correct answer is "more, more"

Key Points

• In the given passage, the most appropriate answer for blank no. 5 is 'more, more.'

• More: a larger or extra number or amount.

• Example: Add some more cream to the sauce.

• Therefore, as per the points mentioned above, we find that the correct answer is option 2.

Q26. Answer: (b) [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 "

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" → Options 4 is eliminated.

• The second last letter of the word is "

". So, the second letter in the mirror image will be "

"→ Options 1, 3 are eliminated.

Hence, Option 2 is the correct answer.

Additional Information

• In a mirror image Left changes to rightand theright changes to leftwheretop 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.

Q27. Answer: (b) QIS

The pattern followed here is:

Hence, 'QIS' is the correct answer.

Q28. Answer: (b) 6, 3, 4, 5, 1, 2

The option that represents the correct order of the given words as they would appear in an English dictionary is shown below:

6. Peasant

3. Pedestrian

4. Perceive

5. Perfect

1. Perilous

2. Pessimist

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

Q29. Answer: (c) S W Q W U

Given: M _ W Q U N S _ Q U O S W _ U P S _ Q _

Let's check each option:

1) S Q U W W → M S W Q U - N S Q Q U - O S W U U - P S W Q W

2) S Q W U W → M S W Q U - N S Q Q U - O S W W U - P S U Q W

3) S W Q W U → M S W Q U - N S W Q U - O S W Q U - P S W Q U

• Here we can see a pattern.

• 1st letter is increasing by +1, rest letters are same.

• M + 1 = N; N + 1 = O; O + 1 = P

4) S W Q U W → M S W Q U - N S W Q U - O S W Q U - P S U Q W

Hence, 'S W Q W U ' is the correct answer.

Q30. Answer: (b) 282 : 6

The logic followed here:

The second number is the average of the digits of the first number.

1) 678 : 7 → 678 → (6 + 7 + 8) ÷ 3 = 21 ÷ 3 = 7

2) 282 : 6 → 282 → (2 + 8 + 2) ÷ 3 = 12 ÷ 3 = 4 ≠ 6

3) 366 : 5 → 366 → (3 + 6 + 6) ÷ 3 = 15 ÷ 3 = 5

4) 546 : 5 → 546 → (5 + 4 + 6) ÷ 3 = 15 ÷ 3 = 5

Hence, option 2 is the odd one.

Q31. Answer: (a) [figure]

When the folder paper is opened, the cuts will appear as follows:

Hence, option 1 is the correct answer.

Q32. Answer: (a) +, ×, −, +, ÷, =

BODMAS RULE:

Let's check each option:

1. +, ×, −, +, ÷, =

Given equation: 42 * 19 * 4 * 69 * 81 * 9 * 58

After interchanging the signs, we get:
=>42 + 19 × 4 - 69 + 81 ÷ 9 = 58
=>42 + 19 × 4 - 69 + 9 = 58
=>42 + 76 - 69 + 9 = 58
=>58 = 58
2. ÷, −, ×, =, ×, +
Given equation: 42 * 19 * 4 * 69 * 81 * 9 * 58
After interchanging the signs, we get:
=>42 ÷ 19 - 4 × 69 = 81 × 9 + 58
=>2.21 - 4 × 69 = 729 + 58
=>2.21 - 276 = 787
=>-273.79 ≠ 787
3. −, −, =, ×, ÷, −
Given equation: 42 * 19 * 4 * 69 * 81 * 9 * 58
After interchanging the signs, we get:
=>42 - 19 - 4 = 69 × 81 ÷ 9 - 58
=>19 = 69 × 9 - 58
=>19 = 621 - 58
=>19 ≠ 563
4. ×, −, =, +, ×, −
Given equation: 42 * 19 * 4 * 69 * 81 * 9 * 58
After interchanging the signs, we get:
=>42 × 19 - 4 = 69 + 81 × 9 - 58
=>798 - 4 = 69 + 9 - 58
=>794 ≠ 20
Hence, option 1 is the correct answer.

Q33. Answer: (d) ÷, +, =, +

BODMAS RULE:
Let's check each option:
1. ×, −, =, +
Given equation: 40 * 2 * 15 * 30 * 5
After interchanging the signs, we get:
=>40 × 2 - 15 = 30 + 5
=>80 - 15 = 35
=>65 ≠ 35
2. ×, =, −, −
Given equation: 40 * 2 * 15 * 30 * 5
After interchanging the signs, we get:
=>40 × 2 = 15 - 30 - 5
=>80 = 15 - 35
=>80 ≠ -20
3. ÷, =, +, −
Given equation: 40 * 2 * 15 * 30 * 5
After interchanging the signs, we get:
=>40 ÷ 2 = 15 + 30 - 5
=>20 = 45 - 5
=>20 ≠ 40
4. ÷, +, =, +
Given equation: 40 * 2 * 15 * 30 * 5
After interchanging the signs, we get:
=>40 ÷ 2 + 15 = 30 + 5

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=>20 + 15 = 35

=>35 = 35

Hence, option 4) is the correct answer.

Q34. Answer: (c) 35 : 280

The logic followed here is:

Second number is six times of the first number.

1) 40 : 240 → 40 × 6 = 240

2) 25 : 150 → 25 × 6 = 150

3) 35 : 280 → 35 × 6 = 210 ≠ 280

4) 30 : 180 → 30 × 6 = 180

Hence, option 3 is the odd one.

Q35. Answer: (a) 75

The logic followed here is:

(First number × 4) - 9 = Second number

27 : 99 → (27 × 4) - 9 = 108 - 9 = 99

13 : 43 → (13 × 4) - 9 = 52 - 9 = 43

Similarly,

21 : ? → (21 × 4) - 9 = 84 - 9 = 75

Hence, option 1 is the correct answer.

Q36. Answer: (c) 9 : 100

The logic followed here is:

(First number - 1)² = Second number

1) 12 : 121 → 12 - 1 = 11 → 11² = 121

2) 6 : 25 → 6 - 1 = 5 → 5² = 25

3) 9 : 100 → 9 - 1 = 8 → 82 = 64 ≠ 100

4) 8 : 49 → 8 - 1 = 7 → 72 = 49

Hence, option 3 is the odd one.

Q37. Answer: (d) 21

The logic followed here is:

(Second number + First number) × (Second number - First number) = Third number

First row: 5, 9, 56 → (9 + 5) × (9 - 5) = 14 × 4 = 56

Second row: 4, 7, 33 → (7 + 4) × (7 - 4) = 11 × 3 = 33

Similarly,

Third row:10, 11, ? → (11 + 10) × (11 - 10) = 21 × 1 = 21

Hence, option 4 is the correct answer.

Q38. Answer: (a) [figure]

When the folder paper is opened, the cuts will appear as follows:

Hence, option 1 is the correct answer.

Q39. Answer: (b) OXPSD

The logic followed here is:-

• MAP

• • • The word formed is 'NBQ' but in code language, it is written backwards.

• Therefore, code = QBN

• LEAP

• • • The word formed is 'MFBQ' but in code language, it is written backwards.

• Therefore, code = QBFM

• Similarly, CROWN

• • The word formed is 'DSPXO' but in code language, it is written backwards.

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• Therefore, code = OXPSD

Hence, "option 2" is the correct answer.

Q40. Answer: (c) Only conclusion II follows

Statements:

Some boxes are houses.

Some houses are tents.

Some tents are castles.

Venn diagram:

Conclusions:

I. Some castles are houses. → Does not follow (because some castles are tents, not houses)

II. Some tents are houses. → Follows (because some tents are definitely houses because some houses are tents as given in the statements.)

III. Some castles are boxes. → Does not follow (because no castle is box.)

Hence, “Only conclusion II follows”.

Q41. Answer: (c) 2

The logic followed here is:

1) P is taller than only U and R

=> P > U and R

2) R is taller than U

=> P > R > U

3) Q is taller than S but shorter than T

=> T > Q > S

4) T is not the tallest among all

So, the correct order will be => V > T > Q > S > P > R > U

So, there are two persons between Q and R.

Hence, the option 3 is the correct answer.

Q42. Answer: (b) 153

The logic followed here is:

(First number × Second number) - 3 = Third number

First row- 5, 16, 77 → (5 × 16) - 3 = 80 - 3 = 77

Third row- 8, 19, 149 → (8 × 19) - 3 = 152 - 3 = 149

Similarly,

Second row- 13, 12, ? → (13 × 12) - 3 = 156 - 3 = 153

Hence, option 2 is the correct answer.

Q43. Answer: (b) 12

The logic followed here is :

$6 : 40 = 6^2 + 4 = 36 + 4 = 40$

$12 : 148 = 12^2 + 4 = 144 + 4 = 148$

$3 : 13 = 3^2 + 4 = 9 + 4 = 13$

Hence, 12 is the correct answer.

Q44. Answer: (b) White

Given :

The six colors are Red, Green, Blue, Yellow, Black, White

Both black and yellow are common in both the dices. when we move clockwise then blue is opposite to white because yellow, red and black are adjacent to blue so they can't be opposite to blue

Hence, white is the correct answer.

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Q45. Answer: (a) XOBNI

Explanation :

GAINS : SNAIG

In the same way,

ANVIL : LIVNA

Similarly,

INBOX : XOBNI

Hence, XOBNI is the correct answer.

Q46. Answer: (d) [figure]

Explanation :

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

The series is alternate series. so, the next figure in the series will be option 4.

Hence, option 4 is the correct answer.

Q47. Answer: (a) 593

Explanation :

Hence, 593 is the correct answer.

Q48. Answer: (d) 4, 1, 2, 5, 3

Explanation :

Arranging the given words as per they appear in english alphabet dictionary :

4. Decadent

1. Dictation

2. Dictator

5. Distilled

3. Distribute

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

Q49. Answer: (a) [figure]

Explanation :

When the folded paper is open, the cut will appear as follows :

Hence, Option 1) is the correct answer.

Q50. Answer: (b) EOSM

Explanation :

“EASY” is written as “YAES”

“KIND” is written as “DIKN”

Similarly,

SOME is written as EOSM

Hence, EOSM is the correct answer.

Q51. Answer: (c) 5.2

Given:

Marks obtained out of 10 in a class test	Frequency
0	3
1	2
2	2
3	4
4	6
5	7

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6	7
7	5
8	3
9	4
10	2

Concept Used:

Arithmetic Mean = ∑(f_ix_i)/n

Calculations:

Arithmetic mean = (0× 3+1× 2+ 2 × 2+3× 4+ 4 × 6+ 5× 7+ 6× 7+ 7×5+8× 3+ 9× 4+ 10× 2)/(3+2+2+4+6+7+7+5+3+4+2)

Arithmetic mean = 234/45=5.2

Therefore The arithmetic mean of the given data is 5.2

Q52. Answer: (c) 512

Given:

(1/2 × 1/2 × 1/2) + (3/2 × 3/2 × 3/2) ~ + (6 × 6 × 6) + 3(1/2 + 3/2)(1/2 + 6)(6 + 3/2)~

Calculation:

=> (1/2 × 1/2 × 1/2) + (3/2 × 3/2 × 3/2) ~ + (6 × 6 × 6) + 3(1/2 + 3/2)(1/2 + 6)(6 + 3/2)~

=> 1/8+27/8+216+3× 2× ((1+12)/2)× ((12+3)/2)~

=> 7/2+216+6× 13/2× 15/2

=> 216 + (592/2)

=> 7/2+216+585/2

=> 216+296=512

Therefore The simplified value of this expression is 512

Q53. Answer: (d) 444/9 %

Given:

Cost price Of 5 oranges = Rs. 15

The selling price of 3 oranges = Rs. 5

Concept Used:

Loss = C.P - S.P

Loss percent = (loss/C.P) × 100 percent

Calculation:

The cost price of 5 oranges = Rs.15

Cost price of 1 orange = 15/5 = Rs. 3

The cost price of 3 oranges = 3×3 = Rs.9

The selling price of 3 oranges = 5

Loss %= (C.P - S.P) × 100 over C.P

Loss % = (9 - 5) × (100/9) %

Loss % = 400/9 % = 44 4over 9 %

Therefore The loss percentage is 44 4over 9 %

Q54. Answer: (c) 11.25 km

Given:

Speed1 = 450 meter/min

speed2 = 1.4 × (speed1)

The total distance traveled in one hour = 33.3 km

Concept Used:

Average speed = total distance/total time

Calculation:

Speed1 = 450 m/min = 450 × 3/50 km/h = 27 km/ h

Speed2 = 1.4 × (speed1) = 1.4 × 27 = 37.8 km/h

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Total distance traveled in 1 hour = 33.3 km
Let the distance travelled at two speeds be x and (33.3 – x) km
=> T1 + T2 = 1 hour
=> x/S1 + (33.3 – x)/S2 = 1
=> x/27 + (33.3 – x)/27×1.4 = 1
=> (33.3 – x)/ 27 × 1.4 = 1 – x/27
=> (33.3 – x)/1.4 = 27 – x
=> 33.3 – x = 27 × 1.4 – 1.4x
=> 0.4x = 27 × 1.4 – 33.3
=> x = (37.8 – 33.3)/0.4
=> x = 4.5/0.4 = 11.25 km
Therefore The distance traveled by Sunita at a lower speed is 11.25 km.
Shortcut TrickCalculation:
Now,
Ratio of time = 4.5 : 6.3 = 5 : 7
=> (5 + 7) = 12 units = 60 min
=> 1 unit = 5 min
So 5 units = 25 min
So the distance was covered at a lower speed = 27 × (25/60)
=> 45/4 = 11.25 km
Therefore The correct answer is 11.25 km.

Q55. Answer: (b) 8 days

Given:
Number of men = 40
Number of days taken by 40 men to complete the work = 18 days
Concept Used:
1 day's work = M1D1over W1 = M2D2over W2
Calculation:
=> Let the work be 1 unit.
=> 40 men complete the work in 18 days.
=> So, Their 1 day's work = 1/18
=> Then, Their 9 day's work = 9/18=1/2
=> Remaining work = 1-1/2=1/2
=> New number of men = 40 + 5 = 45
=> M1D1over W1 = M2D2over W2
=> 40 × 18over1 = 45 × D2 over 1/2
=> D2 = 8 days
Therefore The time taken to complete the remaining work is 8 days.
Alternate MethodCalculation:
According to the question:
=> 40 × 9 + 45 × n = 40 × 18
=> 45 × n = 40 × 9
=> n = 8 days
Therefore The correct answer is 8 days.

Q56. Answer: (c) Rs. 8,000

Given:
Interest for the 1st year = Rs 400
Interest for the 2nd year = Rs 420
Concept used:
When Time is one year, then

Interest = (Principal× Rate)/100
Calculation:
Interest on Rs.400 for 1 year(2^(nd) year) = Rs.420 – Rs.400 = Rs.20
=> Rate = (Interest × 100)/Principal
=> Rate = (20× 100)/400
=> Rate = 5%
Interest on the sum for the first year = Rs.400
=> Sum = (Interest × 100)/Principal
=> Sum = (400× 100)/5 = Rs.8000
Therefore The correct answer is Rs.8000.

Q57. Answer: (b) Rs. 32,000

Given:
Salary spent on food = 20%
Salary spent on charity = One-fourth of the remaining salary
Savings = Rs. 9600
Concept Used:
Salary = Expenses + Savings
Calculation:
Let the man's salary be Rs. x
The money spent on food = 20% of x = 20/100× x = x/5
Remaining amount = x-x/5=4x/5
Money spent on charity = 1/4× 4x/5=x/5
Remaining amount = 4x/5-x/5=3x/5
According to the question,
=> 9600 = 1/2× 3x/5
=> x = 9600 × (10/3) = Rs.32000
Therefore The monthly salary is Rs.32,000

Q58. Answer: (b) 22 cm

Given:
Radius = 35 cm
Angle subtends at center (θ) = 36°
Concept Used:
Length of an arc (l) = 2πr × (θ/360°)
Calculation:
Length of arc = 2πr × (θ/360°)
Length of an arc = 2× 22/7 × 35× 36/360
Length of arc = 22 cm
Therefore The length of an arc of a circle is 22 cm.

Q59. Answer: (a) 32/5

Concept Used:
If 4 numbers a, b, c, and d are in proportion then
=> a/b=c/d
Calculation:
Let the third proportional be x
=> 4 : 15 :: x : 24
=> 4/15=x/24
=> x=4/15× 24
=> x=32/5
Thus, the third proportional to 4, 15, and 24 is 32/5
Additional Information

We must keep this in mind that,
When we are asked about a third proportion,
Then that number will be 3rd in position.
Also if when asked for a fourth proportion,
Then that number will be 4th in position.

Q60. Answer: (a) √2 - 1

Concept Used:
tan x/2 = (1 - cos x)/(sin x)
Calculation:
=> tan x/2 = (1 - cos x)/(sin x)
=> tan (45°/2) = 1 - cos 45° over sin 45°
=> tan 22.5° = 1 - 1/√2 over 1/√2
=> tan 22.5° = √ 2 - 1 over √ 2 × √2
=> tan 22.5° = √2 - 1
Hence, the value of tan 22.5° is √2 -1

Q61. Answer: (d) Rs. 410 lakh

Given:
Concept Used:
Average = Sum of total terms ÷ No. of terms
Calculation:
The amount invested in raw material in the year 1997 = 375 lakhs
The amount invested in raw material in the year 1998 = 330 lakhs
The amount invested in raw material in the year 1999 = 525 lakhs
Average amount invested during these 3 years = (375 + 330 + 525) ÷ 3
=> 1230 ÷ 3 = 410 lakhs
Therefore The average amount invested in raw materials from year 1997 to 1999 is Rs 410 Lakhs

Q62. Answer: (d) 3

Given:
42 ÷ 2 + a × 3 − 22 = 8
Concept Used:
Calculation:
=> 42 ÷ 2 + a × 3 − 22 = 8
=> 21 + a × 3 – 22 = 8
=> 21 + 3a – 22 = 8
=> 3a – 1 = 8
=> 3a = 9
=> a = 9 ÷ 3 = 3
Hence, the value of a is 3.

Q63. Answer: (b) 20.9

Given:
Average marks of 7 Children = 20
Average marks of 3 children = 45
Average marks of 4 children = 15
Average marks of 2 children = 0
Concept Used:
Average = Sum of all terms ÷ Number of terms
Sum of n terms = Average × Number of terms
Calculation:
Marks obtained by 7 children = 20 × 7 = 140

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Marks obtained by 3 children = 45 × 3 = 135
Marks obtained by 4 children = 15 × 4 = 60
Marks obtained by 2 children = 0 × 2 = 0
Total marks obtained by 16 children = 140 + 135 + 60 + 0 = 335
Average marks of 16 children = 335 ÷ 16 = 20.9
Therefore The Average marks of 16 children are 20.9

Q64. Answer: (c) Rs. 46,170

Given:
Marked Price of machine = Rs 54,000
Discount on MP = 10%
Discount on making cash payment = 5%
Concept Used:
Selling Price = Marked Price × {1 - (d/100)}
Calculation:
Applying a discount of 10%,
=> Selling Price = 54000 – 10% of 54000
=> Selling Price = 54000-10/100× 54000=54000-5400=48,600 Rs
Applying a discount of 5% on cash payment,
=> Selling Price = 48600 – 5% of 48600
=> Selling Price = 48600-5/100× 48600=48600-2430=46,170 Rs
Therefore The customer has to pay the amount of Rs 46,170 in cash for the machine.
Alternate MethodCalculation:
First discount = 10%; Second discount = 5%
S.P = 54000 × 90% × 95%
S.P = Rs.46,170
Therefore The correct answer is Rs.46,170.

Q65. Answer: (b) Rs. 1,695

Given:
Length of room = 7 m
Breadth of room = 4 m
Height of room = 9 m
Rate of whitewashing = Rs 7.50 per m^2
Concept Used:
Area of four walls of room = 2h (l + b)
Area of ceiling = l × b
Calculation:
Area of four walls of room = 2h (l + b)
Area of four walls of room = 2 × 9 (7 + 4)
=> 18 × 11 = 198 m^2
Area of ceiling = l × b
Area of ceiling = 7 × 4 = 28 m^2
Total area of four walls and ceiling = 198 + 28 = 226 m^2
Now, the cost of whitewashing the walls and ceiling = 226 × 7.50 = Rs.1,695
Therefore The price for whitewashing the walls of the room and the ceiling is Rs.1,695

Q66. Answer: (c) Rs. 72.20

Given:
Successive Discounts = 5%
Marked Price of an article = Rs.80
Concept Used:
Selling Price = Marked price × {1 - (d/100)}

Calculation:
After the first discount of 5%,
Selling Price = 80 – 5% of 80
Selling Price = 80 - (5/100) × 80 = 80 - 4 = 76
After the second discount of 5%,
The Final Selling Price = 76 – 5% of 76
Final Selling Price = 76 - (5/100) × 76 = 76 - 3.8 = Rs.72.20
Therefore The correct answer is Rs.72.20.
Alternate MethodCalculation:
=> S.P = 80 × 95% × 95%
=> S.P = Rs.72.2
Therefore The correct answer is Rs.72.20.

Q67. Answer: (d) 2995

Concept Used:
Divisible by 15 = number should be divisible by 3 and 5
Divisible by 3 = sum of the digits should be divisible by 3.
Divisible by 3 = Unit digit should be either 5 or 0.
Calculation:
From the options:
=> 2595 = 2 + 5 + 9 + 5 = 21
So, 21 is divisible by 3, and the unit digit is 5, so it will be divisible by 5
So, 2595 will be divisible by 15
=> 3195 = 3 + 1 + 9 + 5 = 18
So, 18 is divisible by 3 and the unit digit is 5, so it will be divisible by 5
So, 3195 will be divisible by 15
=> 3465 = 3 + 4 + 6 + 5 = 18
So, 18 is divisible by 3 and the unit digit is 5, so it will be divisible by 5
So, 3465 will be divisible by 15
=> 2995 = 2 + 9 + 9 + 5 = 25
So 25 is not divisible by 3 and the unit digit is 5, so it will be divisible by 5
So 2995 will not be divisible by 15
Therefore The correct answer is 2995.

Q68. Answer: (c) • 1

Given:
sin θ = (√3)/2
Concept Used:
cos (90° + θ) = - sin θ
Calculation:
=> Sin θ = (√3)/2
=> Sin θ = Sin 60°
=> θ = 60°
Now, cos 3θ = cos (3 × 60) = cos 180°
=> cos (90 + 90) (As cos (90° + θ) = - sin θ)
=> - sin 90° = - 1
Hence, the value of cos 3θ is –1

Q69. Answer: (c) 13

Given:
(5 × 5 × 5 × 5 × 5)5 × (5 × 5 × 5)5 ÷ 5 = (125)?
Concept Used:
a^x × a^y = a^(x + y)

Calculation:

=> (5 × 5 × 5 × 5 × 5)5 × (5 × 5 × 5)5 ÷ 5 = (125)^?

=> (5 × 5 × 5)^5 × (5 × 5)^5 × (125)^5 ÷ 5 = (125)^?

=> (125)^(5 + 5) × (5^5× 5^5)/5 = (125)^?

=> (125)^(10) × 125 × 125 × 5^1 × 5^2 = (125)^?

=> (125)^(10 + 2 + 1) = (125)^?

=> $(125)^{13}$ = (125)^?

Therefore The correct answer is 13.

Q70. Answer: (d) 2015

Given:

Concept Used:

Percentage Increase = (Increase ÷ Original Quantity) × 100

Calculation:

Production in the year 2011 = 40 lakh tonnes

Production in the year 2012 = 30 lakh tonnes

Difference between 2011 and 2012 as production fall = 40 – 30 = 10 lakh tonnes

Production in the year 2013 = 50 lakh tonnes

Difference between 2012 and 2013 as production rise = 50 – 30 = 20 lakh tonnes

Production in the year 2014 = 20 lakh tonnes

Difference between 2013 and 2014 as production fall = 50 – 20 = 30 lakh tonnes

Production in the year 2015 = 50 lakh tonnes

Difference between 2014 and 2015 as production rise = 50 – 20 = 30 lakh tonnes.

Percentage production rose in 2015 = 3000000/2000000× 100=150% %

Therefore The percentage production rise/fall from the previous year for country R is maximum in 2015

Q71. Answer: (a) 2145 m^3

Given:

Length of cuboid = 7.5 m

Breadth of cuboid = 22 m

Height of cuboid = 13 m

Concept Used:

Volume of cuboid = Length × Breadth × Height

Calculation:

Volume of cuboid = Length × Breadth × Height

=> Volume of Cuboid = 7.5× 22× 13

=> Volume of Cuboid = 2145 m^3

Hence, the volume of the cuboid is 2,145 m^3.

Q72. Answer: (d) 33

Concept Used:

Sum of the Arithmetic Series = n/2[2a+(n-1)d]

Average = Total sum of values ÷ Total number of values

Calculation:

First 10 multiples of 6 = 6, 12, 18, ..., 60

We have, First term, (a) = 6; Common Difference (d) = 6

=> Average = (n/2[2a+(n-1)d])/10

=> Average =)((10/2[2× 6+(10-1)× 6])/10=(5× [12+54])/10

=> Average = 330/10=33

Therefore The average of first 10 multiples of 6 is 33.

Q73. Answer: (c) Rs. 62,665

Given:

Price of bike = Rs 75,500

Reduction Percentage = 17%

Concept Used:

Price After Reduction = Original Price – Percentage of Original Price

Calculation:

Price after reduction = 75500 – 17% of 75500

Price after reduction = 75500-17/100× 75500=75500-17×755

Price after reduction = 75500 – 12835 = Rs 62,665.

Therefore The price of a bike after a reduction of 17% is Rs 62,665.

Q74. Answer: (b) 20%

Given:

Compound Interest for one year = Rs 350

Compound Interest for the second year = Rs 420

Concept Used:

Compound Interest = P (1+r/100)^t-P

Simple Interest = (P× R× T)/100

Calculation:

Let the rate of interest be x%.

Difference between interest of 1st and 2nd year = Rs 420 – 350 = Rs 70

So, the interest on Rs 350 for one year is Rs 70

Now, according to the question,

=> (350× x× 1)/100 = 70

=> x=(70× 100)/350 = 20 %

Therefore The rate of interest for the amount is 20%.

Q75. Answer: (d) 24 cm

GIVEN:

Area of quadrilateral = 336

Perpendiculars to one diagonal from the opposite vertices (CF) = 16 and AE =12 respectively.

FORMULA USED:

Area of quadrilateral = 1/2 × diagonal × [sum of perpendiculars on diagonal form opposite vertices].

CALCULATION:

Area = 1/2 × diagonal × [CF + AE]

=> 336 = 1/2 × diagonal × [16 + 12]

=> 336 = 1/2 × diagonal × 28

Diagonal = 336/14 = 24 cm.

Therefore The required length of the diagonal is 24 cm.

Q76. Answer: (c) 1999

The correct answer is 1999.

Key Points

• Lata Mangeshkar is one of the legendary figures of Indian Cinema.

• She is commonly known as the Nightingale of India.

• Lata Mangeshkar (born Hema Mangeshkar; 28 September 1929 – 6 February 2022) was an Indian playback singer, music director and music producer who made Bollywood music.

Additional Information

• She was awarded the Padma Vibhushan, the second-highest Indian civilian awardin 1999.

• Lata Mangeshkar was an Indian playback singer, music director and music producer who made Bollywood music.

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Q77. Answer: (b) Ankita Raina

The correct answer is Ankita Raina.

Key Points

• Ankita Ravinderkrishan Raina is an Indian professional tennis player. She is the current Indian no. 1 in women's singles.

• Raina has won one title on the WTA Tour and one at WTA 125 tournaments, along with 11 singles and 20 doubles titles on the ITF

Additional Information

• Shikha Devi Uberoi is an American former professional tennis player, who represented India in international tournaments and a former Indian No. 1. After Nirupama Sanjeev, she is the second Indian female player in history to crack the top 200 rankings

• Rushmi Chakravarthi is a former professional tennis player from India. She won a record 52 ITF titles, the highest number set by an Indian female player. She turned professional, after playing in the first round of the WTA Tour tournament Sunfeast Open, held at Kolkata in September 2005.

• Tara Iyer is a professional tennis player from India who has won four ITF singles tennis titles and one doubles title.

Q78. Answer: (b) Aparna Satheesan

The correct answer is Aparna Satheesan.

Key Points

• Aparna Satheesan, is among India's most dynamic and technically brilliant dancers, an outstanding representative of Kuchipudi dance form.

• Abhinandan Saroja National Award is a national award given to eminent dancers for their choreography, performance and contribution to preserving the traditional classical dance forms of India.

• It is presented by the National Institute of Indian Classical Dance.

Additional Information

• Saroja Vaidyanathan is a choreographer, the most intellectual soul, the guru, and a notable exponent of Bharatanatyam. She was conferred the Padma Shri in 2002 and the Padma Bhushan in 2013 by the Government of India.

• Mrinalini Sarabhai was the founder and director of the Darpana Academy of Performing Arts.

• Alarmel Valli is a leading Indian classical dancer and choreographer and the foremost exponent of the Pandanallur style.

Q79. Answer: (a) Blood transfusion

The correct answer is Blood transfusion

Key Points

• Non-communicable diseases are chronic health conditions that are not contagious and, tend to be of long duration and are the result of a combination of genetic, physiological, environmental and behavioural factors

• Blood transfusions are used for patients who have experienced serious injuries from car crashes or natural disasters.

Additional Information

• A balanced diet is a diet that contains differing kinds of foods in certain quantities and amount.

• A healthy diet includes the following: Fruit, vegetables, legumes (e.g. lentils and beans), nuts, and whole grains (e.g. unprocessed maize, millet, oats, wheat, and brown rice.

• Adequate Sleep, is the amount of sleep is an important indicator of health and well-being in children and adolescents.

Q80. Answer: (a) Group 8

The correct answer is Group 8.

Key Points

• Iron is a chemical element with the symbol Fe and atomic number 26.

• Group 8 is a group of chemical elements in the periodic table. It consists of iron, ruthenium, osmium and hassium.

• They are all transition metals.

Additional Information

• The columns of the periodic table are called groups.

• Members of the same group in the table have the same number of electrons in the outermost shells of their atoms and form bonds of the same type. The horizontal rows are called periods.

Q81. Answer: (b) Chetan Bhagat

The correct answer is Chetan Bhagat.

Key Points

• Chetan Baghat, a rising star in the contemporary modern Indian literature, is a multitalented personality.
• He is a novelist, columnist, public speaker and a screenplay writer.
• His notable works include Five Point Someone, The 3 Mistakes of My Life and 2 States.
• Chetan Bhagat's 'Five Point Someone' is a story about three friends and four years in IIT.

Additional Information

• Durjoy Datta is an Indian author and screenwriter known for his coffee-table novels about the romantic life of young Indians.
• Ravinder Singh is an Indian software engineer and author of nine novels.
• Amish Tripathi is an Indian author. He is known for his book series Shiva Trilogy and Ram Chandra Series.

Q82. Answer: (c) Coined the term protoplasm

The correct answer is Coined the term protoplasm.

Key Points

• Jan Evangelista Purkinje in 1839, he coined the term protoplasm for the fluid substance of a cell.
• Protoplasm is the living part of a cell that is surrounded by a plasma membrane.
• It is a mixture of small molecules such as ions, monosaccharides, amino acid, and macromolecules such as proteins, polysaccharides, lipids, etc.

Additional Information

• The plasma membrane, also called the cell membrane, is the membrane found in all cells that separates the interior of the cell from the outside environment.
• The lipid bilayer is a universal component of all cell membranes.

Q83. Answer: (d) 1893

The correct answer is 1893.

Key Points

• The Indian Football Association, abbreviated as IFA, is the organization that administers association football in the state of West Bengal, India.
• It is the oldest Football Association in India and was founded in 1893.

Additional Information

• The All India Football Federation is the governing body of football in India under the jurisdiction of the Ministry of Youth Affairs and Sports, Government of India.
• Formed in 1935 founded at Darbhanga, the federation was one of the founding members of the Asian Football Confederation, the overseer of football in Asia.

Q84. Answer: (b) Sun Temple

The correct answer is Sun Temple.

Key Points

• The Konark Dance Festival is held at an open-air auditorium in the backdrop of the Sun Temple which is also known as the Black Pagoda.
• A UNESCO World Heritage site, Konark Sun Temple is famous for its unique architecture.
• Its geometrical patterns and carved wheels are used to serve as sundials. One can witness three images of Sun God in three directions to catch the rays of the Sun at dawn, noon, and sunset.

Additional Information

• The Somnath temple, also called Somanātha temple or Deo Patan, is a Hindu temple located in Prabhas Patan, Veraval in Gujarat, India. It is one of the most sacred pilgrimage sites for Hindus and is believed to be the first among the twelve jyotirlinga shrines of Shiva.
• Guruvayur Temple is a Hindu temple dedicated to the Lord Guruvayurappan, Under the Administration of Guruvayur Devaswom, located in the town of Guruvayur in Kerala, India.
• The Kamakhya Temple at Nilacal hills in Guwahati, Assam is one of the oldest and most revered centres of Tantric practices.

Q85. Answer: (b) Leo Tolstoy

The correct answer is Leo Tolstoy.

Key Points

• Leo Tolstoy is known primarily for having written the masterpieces War and Peace, which are commonly regarded as among the finest novels ever written.
• A Confession, or My Confession, is a short work on the subject of melancholia, philosophy and religion by the Russian novelist

Leo Tolstoy.

• It was written in 1879 to 1880, when Tolstoy was in his early fifties.

Additional Information

• Mohandas Karamchand Gandhi, commonly known as Bapu, was an Indian lawyer, anti-colonial nationalist, and political ethicist who employed nonviolent resistance to lead the successful campaign for India's independence from British rule.

• Adolf Hitler was an Austrian-born German politician who was the dictator of Germany from 1933 until his death in 1945. He rose to power as the leader of the Nazi Party, becoming the chancellor in 1933

• Nelson Mandela is known for several things, but perhaps he is best known for successfully leading the resistance to South Africa's policy of apartheid in the 20th century.

Q86. Answer: (a) Teju Behun

The correct answer is Teju Behun.

Key Points

• Drawing From the City is a richly detailed drawing, featuring Teju's self-taught style of lines and dots celebrates the life of a gentle, spirited woman who continues to paint her way through difficult times.

• This book is published in 2012.

• Teju Buhun's Drawing From the City is an incredible visual autobiography with intricately detailed hand drawings showing the adventures from Buhun's childhood, her marriage, and her life as a travelling musician.

Additional Information

• Jamini Roy was an Indian painter. Roy was honoured with the State award of Padma Bhushan in 1954. Roy remains one of the most famous pupils of Abanindranath Tagore, another praised Indian artist, and instructor.

• Bhajju Shyam is an Indian artist, belonging to the Gond-Pardhaan community of Madhya Pradesh. He was awarded India's fourth highest civilian award the Padma Shri in 2018.

• Baua Devi is a Mithila painting artist from Jitwarpur village of Madhubani District in Bihar. Mithila painting is an ancient folk art that originated in the region.

Q87. Answer: (d) Article 30

The correct answer is Article 30.

Key Points

• Article 30 gives the Right of minorities to establish and administer educational institutions. As follows:

• All minorities, whether based on religion or language, shall have the right to establish and administer educational institutions of their choice.

• The state shall not, in granting aid to educational institutions, discriminate against any educational institution on the ground that it is under the management of a minority, whether based on religion or language.

• Article 30 of the Indian constitution consists of provisions that safeguard various rights of the minority community in the country keeping in mind the principle of equality as well.

Additional Information

• Article 25 gives Freedom of conscience and free profession, practice and propagation of religion.

• Article 28 gives Freedom as to attendance at religious instruction or religious worship in certain educational institutions.

• Article 36 is the definition part of the Directive Principles of State Policy. It defines what is a 'State' for Directive Principles to be followed.

Q88. Answer: (d) Benzene

The correct answer is Benzene.

Key Points

• Benzene is an organic chemical compound with the molecular formula C6H6.

• The benzene molecule is composed of six carbon atoms joined in a planar ring with one hydrogen atom attached to each.

• Benzene is a colourless or light-yellow liquid chemical at room temperature.

• A common name is defined by the IUPAC as a name that unambiguously defines a chemical, yet does not follow the current systematic naming convention.

• An example of a common name is acetone, which has the systematic name 2-propanone.

Additional Information

• Methanol is also known as methyl alcohol. As an engine fuel, methanol has chemical and physical fuel properties similar to ethanol.

• Acetic acid is also known as ethanoic acid, ethylic acid, vinegar acid, and methane carboxylic acid. it has the chemical formula of

CH3COOH.

• Acetone (CH3COCH3), also called 2-propanone or dimethyl ketone. It is an organic solvent of industrial and chemical significance, the simplest and most important of the aliphatic (fat-derived) ketones.

Q89. Answer: (c) Primary producers

The correct answer is Primary producers.

Key Points

• Phytoplankton, also known as microalgae, are similar to terrestrial plants in that they contain chlorophyll and require sunlight in order to live and grow.

• Most phytoplankton is buoyant and floats in the upper part of the ocean, where sunlight penetrates the water.

• Autotrophs or primary producers are organisms that acquire their energy from sunlight and materials from nonliving sources.

• Algae, higher plants, and some bacteria and protists are important autotrophs in running waters.

• Heterotrophs obtain energy and materials by consuming living or dead organic matter.

Additional Information

• Primary consumers make up the second trophic level. They are also called herbivores. They eat primary producers—plants or algae—and nothing else. For example, a grasshopper living in the Everglades is a primary consumer.

• The organisms that eat the primary consumers are meat eaters (carnivores) and are called secondary consumers. The secondary consumers tend to be larger and fewer in number. This continues on, all the way up to the top of the food chain.

• Decomposers feed on dead things: dead plant materials such as leaf litter and wood, animal carcasses, and faeces. They perform a valuable service as Earth's cleanup crew. Without decomposers, dead leaves, dead insects, and dead animals would pile up everywhere.

Q90. Answer: (b) Lysosomes

The correct answer is Lysosomes.

Key Points

• Lysosomes are membrane-enclosed organelles that contain an array of enzymes capable of breaking down all types of biological polymers—proteins, nucleic acids, carbohydrates, and lipids.

• A lysosome is a membrane-bound cell organelle that contains digestive enzymes.

• Lysosomes are involved with various cell processes. They break down excess or worn-out cell parts.

• They may be used to destroy invading viruses and bacteria.

Additional Information

• A ribosome is an intercellular structure made of both RNA and protein, and it is the site of protein synthesis in the cell.

• SER is involved in the synthesis of lipids, including cholesterol and phospholipids, which are used in the production of new cellular membranes. In cells of the liver, SER contributes to the detoxification of drugs and harmful chemicals.

• The cytosol is the liquid medium contained within a cell. The cytosol is a component of the cytoplasm. The cytoplasm includes the cytosol, all the organelles, and the liquid contents inside the organelles.

Q91. Answer: (c) 101

The correct answer is 101.

Key Points

• The Global Hunger Index is a tool that measures and tracks hunger globally as well as by region and by country, prepared by European NGOs of Concern Worldwide and Welthungerhilfe.

• The GHI is calculated annually, and its results appear in a report issued in October each year.

• A country's GHI score is calculated by averaging the percentage of the population that is undernourished, the percentage of children younger than five years of age who are underweight, and the percentage of children who die before the age of five.

• In the 2021 Global Hunger Index, India ranks 101st out of the 116 countries with sufficient data to calculate 2021 GHI scores. With a score of 27.5, India has a level of hunger that is serious.

Additional Information

• In the 2021 Global Hunger Index, Pakistan ranks 92nd out of the 116 countries with sufficient data to calculate 2021 GHI scores.

• Belarus is at the top of the GHI.

• Somalia is at the bottom of the GHI.

Q92. Answer: (c) tabla

The correct answer is tabla.

Key Points

• Pandit Swapan Chaudhuri is an Indian tabla player.

• He was born on 1947 in Kolkata.

• He was awarded Padma Shri, Sangeet Natak Akademi Award for Hindustani Music - Instrumental (Tabla).

• He received the American Academy of Artists Award and was nominated to the Percussive Arts Society Hall of Fame. In 1996, Swapan Chaudhuri received the Sangeet Natak Academy Award from the President of India, the highest award for Classical Music in India. In 2019, he received the Padma Shri, one of India's highest honours from the Indian government.

Additional Information

• The veena also spelt vina, comprises various chordophone instruments from the Indian subcontinent.

• Harmonium is a stringed instrument made of wood, metal, brass, and cloth. A kind of portable wooden box, it originated in West Bengal.

• A bansuri is an ancient side-blown flute originating from the Indian subcontinent. It is an aerophone produced from bamboo and used in Hindustani classical music.

Q93. Answer: (d) Kidambi Srikanth

The correct answer is Kidambi Srikanth.

Key Points

• The BWF World Championships, formerly known as IBF World Championships, and also known as the World Badminton Championships, is a badminton tournament sanctioned by Badminton World Federation.

• Srikanth Kidambi is an Indian badminton player who trains at the Gopichand Badminton Academy, Hyderabad.

• He was ranked the world number 1 in the BWF rankings in April 2018.

• Kidambi was awarded the Padma Shri, India's fourth highest civilian award, in 2018. and the Arjuna award in 2015.

Additional Information

• Prannoy Haseena Sunil Kumar, also known as H. S. Prannoy, is an Indian badminton player who currently trains at the Gopichand Badminton Academy in Hyderabad.

• Bhamidipati Sai Praneeth is an Indian badminton player. He became the first Indian male shuttler in 36 years to win a bronze medal in the BWF World Championships in 2019 after Prakash Padukone in 1983.

• Lakshya Sen is an Indian badminton player. Sen is a former world junior no. 1. He has won gold medals at the 2018 Asian Junior Championships in the boys' singles and at the Summer Youth Olympics in the mixed team event.

Q94. Answer: (a) Rukmini Devi Arundale

The correct answer is Rukmini Devi Arundale.

Key Points

• A renowned training institute for the classical dances of India, this 'Temple of Arts' was founded by Rukmini Devi Arundale in 1936, to train and encourage young artists and to revive Bharatanatyam, the classical dance form of Tamil Nadu.

• Rukmini Devi Arundale was an Indian theosophist, dancer, and choreographer of the Indian classical dance form of Bharatanatyam, and an activist for animal welfare.

• She was the first woman in Indian history to be nominated as a member of the Rajya Sabha, the upper house of the Parliament of India.

• He was born on 29 February 1904 in Madurai and died on 24 February 1986, in Chennai.

Additional Information

• Vidyagauri Adkar is a Kathak dance exponent in India representing the Jaipur Gharana. She has performed in many music festivals including the Khajuraho Festival of Dances, Chilanka Dance Festival in Thiruvananthapuram, Festival of Dance and Music, Delhi, etc.

• Kumari Kamala is an Indian dancer and actress. Initially featured as a child dancer, Kamala appeared in almost 100 Tamil, Hindi, Telugu, and Kannada films throughout her career. In the 1970s, she became a teacher of the Vazhuvoor style of dance in which she specializes.

• Damayanti Joshi was a noted renowned exponent of the Kathak dance form. She believed Kathak is the art of storytelling. She began in the 1930s dancing in Madame Menaka's troupe, which traveled to many parts of the world.

Q95. Answer: (b) Billiards

The correct answer is Billiards.

Key Points

• Pankaj Arjan Advani is an Indian billiards and former professional snooker player.

• He is a 23-time International Billiards and Snooker Federation world champion. He has won 16 billiards world titles, the IBSF World Billiards Championship on 15 occasions, and the World Team Billiards Championship once.

• Cue sports are a wide variety of games of skill played with a cue, which is used to strike billiard balls and thereby cause them to

move around a cloth-covered table bounded by elastic bumpers known as cushions.

Additional Information

• Squash is among the sports contested at the 2022 Commonwealth Games, to be held in Birmingham, England. Saurav Ghosal wins India's first-ever singles medal in squash at Commonwealth Games 2022.

• Tennis is a racket sport that is played either individually against a single opponent or between two teams of two players each.

• Chess is a board game played between two players. It is sometimes called Western chess or international chess to distinguish it from related games such as xiangqi and shog.

Q96. Answer: (d) Gross Domestic Product – Depreciation = Net Domestic Product

The correct answer is Gross Domestic Product – Depreciation = Net Domestic Product.

Key Points

• The net domestic product (NDP) equals the gross domestic product (GDP) minus depreciation on a country's capital goods.

• Net domestic product accounts for capital that has been consumed over the year in the form of housing, vehicle, or machinery deterioration.

• Depreciation = Depreciation of capital assets such as equipment, vehicles, housing, and more.

• As the NDP takes into account the depreciation of capital assets, it is considered to be superior to the GDP as a measure of the well-being of a nation.

Additional Information

• GDP measures the monetary value of final goods and services—that is, those that are bought by the final user—produced in a country in a given period of time.

• It counts all of the output generated within the borders of a country.

• Rising GDP means more jobs are likely to be created, and workers are more likely to get better pay rises.

• If GDP is falling, then the economy is shrinking - bad news for businesses and workers.

• If GDP falls for two quarters in a row, that is known as a recession, which can mean pay freezes and lost jobs.

Q97. Answer: (a) Ustad Amir Khan

The correct answer is Ustad Amir Khan.

Key Points

• Ustad Amir Khan, Indore Gharana is one of the vocal Gharanas of Indian classical music which was founded by Amir Khan.

• Ustad Amir Khan studied the styles of Abdul Wahid Khan, Aman Ali Khan, Rajab Ali Khan and Abdul Karim Khan and amalgamated their style.

• Ustad Amir Khan was one of the greatest and most influential Indian vocalists in the Hindustani classical tradition.

• Ustad Amir Khan at the height of his form and fame was tragically killed in a car accident. Although in his early sixties.

Additional Information

• Madurai Shanmukhavadivu Subbulakshmi was an Indian Carnatic singer from Madurai, Tamil Nadu. She was the first musician ever to be awarded the Bharat Ratna, India's highest civilian honour.

• Ustad Vilayat Khan was an Indian classical sitar player. Along with Imdad Khan, Enayat Khan, and Imrat Khan, he is credited with the creation and development of gayaki on the sitar.

• Pandit Bhimsen Gururaj Joshi, also known by the honorific prefix Pandit, was one of the greatest Indian vocalists from India, in the Hindustani classical tradition.

Q98. Answer: (a) Bhajan

The correct answer is Bhajan.

Key Points

• Anup Jalota, India's "bhajan king," is a Padma Shri-winning musician and the voice behind the country's favourite devotional music.

• Jalota started his musical career as a chorus singer on All India Radio.

• He is usually backed by a santoor player, dholak player, sarod player, sarangi player, violinist, sitar player, tabla player, and guitarist.

• Popularly known as the Bhajan Samrat, Anup Jalota is making headlines for his latest song Bhagwan Mere Bhagwan.

Additional Information

• Famous playback singers in the Carnatic tradition include Nithyasree Mahadevan and D.K. Pattammal.

• Popular for his invaluable contribution to Hindustani classical music, Pandit Ravi Shankar was one of the best-known players of the sitar. Born in 1920, he became one of the most prolific music maestros of the 20^(th) century.

• Hari Prasad Chaurasia, Pannalal Ghosh is famous for flute instruments.

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• Zakir Hussain, Allah Rakha, Sabir Khan, Pt. Kishan Maharaj, Pt. Jnan Prakash Ghosh, Sandeep Das are famous for Tabla instrument.

Q99. Answer: (a) kuchipudi and bharatanatyam

The correct answer is Kuchipudi and Bharatanatyam.

Key Points

• Mallika Sarabhai, is an Indian classical dancer, choreographer, actress, writer, and social activist known for her promotion of the arts as a vehicle for social change.

• Mallika is an accomplished Kuchipudi and Bharatanatyam dancer and performer who has specialized in using the arts for social change and transformation.

• She started to learn dancing when she was young and started her film career in the parallel cinema when she was 15.

• Mallika played the role of Draupadi in Peter Brook's play The Mahabharata.

Additional Information

• The world-famous Kathak dancer, Pandit Birju Maharaj is the face of the Kalka-Bindadin Gharana of Lucknow.

• Yamini Krishnamurthy – Kuchipudi & Bharatnatyam, born on December 20, 1940, in Madanapalle, Andhra Pradesh, Yamini Krishnamurthy is one of the notable Bharatanatyam and Kuchipudi and turned out to be an important name and eminent personality ruling in the Indian dance world for many decades

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

Q100. Answer: (c) Madhya Pradesh

The correct answer is Madhya Pradesh.

Key Points

• Madhya Pradesh has the highest Scheduled Tribe population (14.7 per cent).

• Madhya Pradesh is one of the most populated states in India and has the highest tribal population in the country touching a galloping number of 15.31 million and covering 21.1% of the state's population.

• Spread across 705 tribes, they account for 8.6% of the country's total population.

• There are 46 recognized Scheduled Tribes in Madhya Pradesh, India, three of which have been identified as 'Particularly Vulnerable Tribal Groups (PTGs)(formerly known as 'Special Primitive Tribal Groups').

Additional Information

• There are thirty-one (31) notified Scheduled Tribes in the state Gujrat, which are as follows: 1 Kharadi. 2 Balat. 4 Bhil, Bhil Taviyad, Bhil Garasia, Dholi Bhil, Dungri Bhil, Dungri Garasia, Mewasi Bhil, Malivad bhil, Rawal Bhil, Tadvi Bhil, Bhagalia, Bhilala, Pawra, Valvi, Vasava, Vasave, Katara, Bhabhor.

• The tribes of Jharkhand consist of 32 tribes inhabiting the Jharkhand state in India.

• Gond tribes have the largest population in Chhattisgarh.

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