# SSC CHSL Tier-1 2021: Official Paper (Held On: 2 June 2022 Shift 3) (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**

Practise under exam conditions, then review your answers after you submit.

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Scan the QR code or click the link to open it.

## ENGLISH LANGUAGE

**Q1.** In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

I suggested her two _____ dates, both in the coming month and just a few days _____ from each other to start her singing practice.

**(a)** alarming, near
**(b)** adverse, different
**(c)** alternative, apart
**(d)** alternating, closely

**Q2.** Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. People can get in touch with the larger global community by communicating and sharing their views via social media.

B. Furthermore, this provides a suitable platform to express their views, conduct business with online transaction, or find new people or jobs.

C. Smartphones have become a very important form of communication these days.

D. It is impossible for a rational person to deny the advantages of smartphones as they are devices suitable for a wide variety of tasks.

**(a)** CBDA
**(b)** CDAB
**(c)** DCBA
**(d)** ABCD

**Q3.** Select the most appropriate ANTONYM of the given word.

Desiderate

**(a)** Quarrel
**(b)** Disregard
**(c)** Acquire
**(d)** Mandate

**Q4.** Select the INCORRECTLY spelt word.

**(a)** Inscrutable
**(b)** Banality
**(c)** Conscientous
**(d)** Giddyap

**Q5.** Select the most appropriate synonym of the highlighted word.

The litigant wished that justice would prevail.

**(a)** detective
**(b)** culprit
**(c)** abuser
**(d)** petitioner

**Q6.** Select the option that expresses the given sentence in active voice.

The outcome of the interview will be published by next week.

**(a)** The panel will have published the outcome of the interview by the week next.
**(b)** The panel would have published the outcome of the interview by next week.
**(c)** The panel was to publish the outcome of the interview by next week.
**(d)** The panel will publish the outcome of the interview by next week.

**Q7.** Select the most appropriate meaning of the idiom given in bold in the following sentence.

She is green-eyed with his success.

**(a)** afraid
**(b)** worried
**(c)** jealous
**(d)** enthusiastic

**Q8.** Select the most appropriate ANTONYM of the highlighted word.

The players seem to be suffering from exertion.

**(a)** inaction
**(b)** suffocation
**(c)** traction
**(d)** reaction

**Q9.** Select the most appropriate ANTONYM of the highlighted word.

The cricketer is in sublime form.

**(a)** superior
**(b)** interior
**(c)** inferior
**(d)** exterior

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

Charley horse

**(a)** Very fast
**(b)** Lucky
**(c)** Cramp
**(d)** Cunning

**Q11.** Select the option that expresses the given sentence in active voice.

The national flag was hoisted by the minister.

**(a)** The minister hoist the national flag.
**(b)** The minister was hoisted the national flag.
**(c)** The minister hoisted the national flag.
**(d)** The minister will hoist the national flag.

**Q12.** Select the most appropriate option to fill in the blank.

Prerna is in a great _____ about whether to go for the party or not.

**(a)** pain
**(b)** depression
**(c)** dilemma

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**(d)** distress

**Q13.** Select the most appropriate meaning of the idiom given in bold in the following sentence.
For the time being, the liberals seem to have carried the day.

**(a)** unpopular
**(b)** winning
**(c)** popular
**(d)** despised

**Q14.** From among the words given, select the INCORRECTLY spelt word in the following sentence.
Tibet was ruled by a theocracy of Buddhist monks under nominal suzeranity of China.

**(a)** nominal
**(b)** suzeranity
**(c)** buddhist
**(d)** theocracy

**Q15.** Select the most appropriate option that can substitute the underlined words in the given sentence.
In order to restore peace, the Czar renounced the throne in favour of his first cousin.

**(a)** abdicated
**(b)** stepped
**(c)** sacrificed
**(d)** sacrileged

**Q16.** Select the INCORRECTLY spelt word.

**(a)** Brusque
**(b)** Boisterous
**(c)** Blizard
**(d)** Blonde

**Q17.** Select the option that expresses the given sentence in passive voice.
Children like to play games all the time.

**(a)** Children like being played to games all the time.
**(b)** Games liked playing with children all the time.
**(c)** Games are liked to be played by children all the time.
**(d)** Children are being played games all the time.

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

**(a)** Eagerness
**(b)** Hard-heartedness
**(c)** Wisdom
**(d)** Bravery

**Q19.** Select the option that will improve the underlined part of the given sentence.
One must care as for family members as possible.

**(a)** most for family members
**(b)** as most for family members
**(c)** more for family members
**(d)** as much for family members

**Q20.** Select the option that can be used as a one-word substitute for the given group of words.
A person who leaves his/her own country to live in another country permanently

**(a)** Vagabond
**(b)** Mercenary

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**(c)** Emigrant
**(d)** Immigrant

**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.

Just before midnight he put on warm clothes and his new shoes and (1) _____ across the bridge. He turned (2) ___ the road and along the sound below the church. Ice had formed on the sound and inside the old harbor, but further out he could see a darker belt of (3) ___ water. As he stood there, the lights on the (4) ___ of the church went out, and it was dark all around him. It was (5) _____ cold and stars filled the sky.

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

**(a)** danced
**(b)** stalked
**(c)** slept
**(d)** walked

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

**(a)** under
**(b)** inside
**(c)** off
**(d)** over

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

**(a)** wet
**(b)** closed
**(c)** dried
**(d)** open

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

**(a)** architecture
**(b)** tunnel
**(c)** vent
**(d)** façade

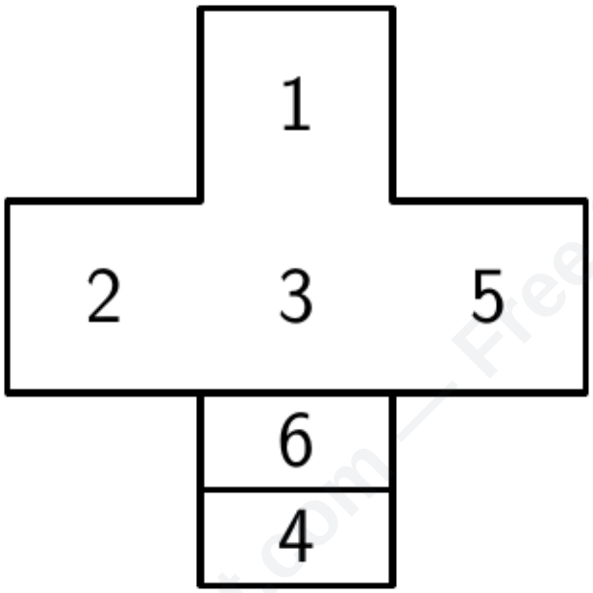
**Q25.** Select the most appropriate option to fill in blank number 5.

**(a)** some
**(b)** abundantly
**(c)** sparingly
**(d)** icy

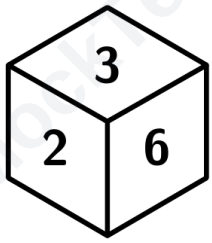
## GENERAL INTELLIGENCE

**Q26.** Select the box that can be formed by folding the given sheet along the lines.

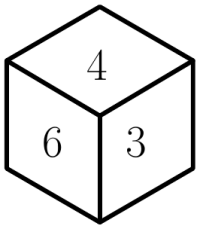
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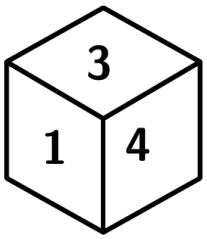

**(a)**



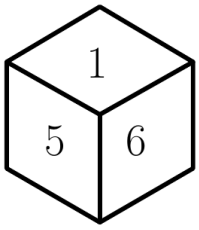

**(b)**




**(c)**




**(d)**




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**Q27.** Which of the following numbers will replace the question mark (?) in the given series?

641, 647, 659, 673, 683, ?

**(a)** 711
**(b)** 715
**(c)** 701
**(d)** 705

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

1. Prophet
2. Prudent
3. Producer
4. Quest
5. Puberty
6. Profound

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

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

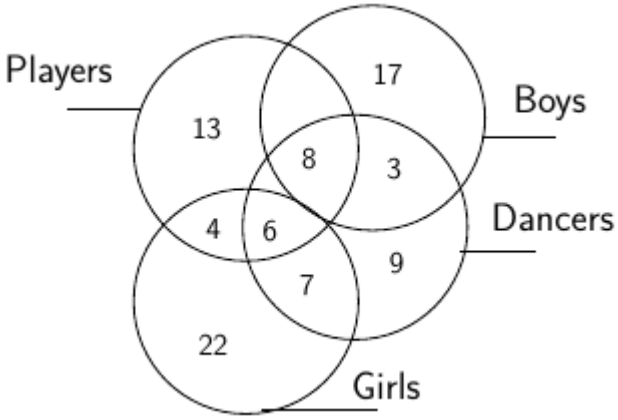
T _ _ r S S _ T T r _ _ S u T T r r _ _ u

**(a)** T r u r S S S
**(b)** T r u r T S S
**(c)** T r u r S r T
**(d)** S r u r S S S

**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)** 3 : 14
**(b)** 5 : 63
**(c)** 7 : 172
**(d)** 9 : 355

**Q31.** Consider the Venn diagram below, and from the given alternatives, choose the number that indicates the total number of girls who are players and dancers.




**(a)** 6
**(b)** 4
**(c)** 8
**(d)** 7

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**Q32.** Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must NOT be related to each other based on the number of letters/number of consonants/vowels in the word)

Watch : Wrist :: Clock : ?

**(a)** House
**(b)** Wall
**(c)** Room
**(d)** Shop

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

25*5*10*2*4*7

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

**Q34.** In a certain code language, 'SKATE' is written as '191122010' and 'ROLLER' is written as '183012121018'. How will 'SLIDE' be written in that language?

**(a)** 191218412
**(b)** 191218416
**(c)** 191218414
**(d)** 191218410

**Q35.** In a certain code language, “ENSURE” is written as “FPVTPB”, and “EQUITY” is written as “FSXHRV”. How will “FINGER” be written in that language?

**(a)** GJQFCO
**(b)** GKRFCO
**(c)** GKQFDO
**(d)** GKQFCO

**Q36.** Which of the following numbers will replace the question mark (?) in the given series?

1, 24, 58, 125, 247, 446, ?

**(a)** 774
**(b)** 747
**(c)** 744
**(d)** 777

**Q37.** If 15^(th) October 2008 was a Wednesday, then what was the day of the week on 14^(th) October 2012?

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

**Q38.** In a certain code language, "MATURE" is written as "AMUTER", and "MENTAL" is written as "EMTNLA". How will "MOBILE" be written in that language?

**(a)** OMIEBL
**(b)** OMIBEL
**(c)** OIMEBL
**(d)** OIMBEL

**Q39.** Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

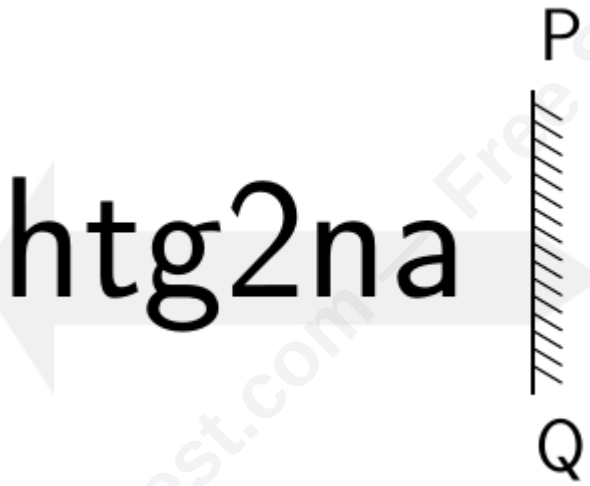
18 : 55 :: 28 : 85 :: 36 : ?

**(a)** 105

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**(b)** 115
**(c)** 109
**(d)** 104

**Q40.** Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.




**(a)**

**BuZetnd**

**(b)**

snSetd

**(c)**

**anSeth**

**(d)**

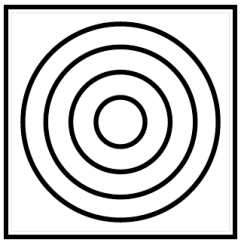
**anSetd**

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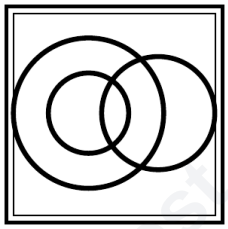
**Q41.** Select the Venn diagram that best illustrates the relationship between the following classes.

Peaches, Lychees, Fruits

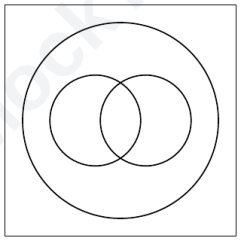
**(a)**



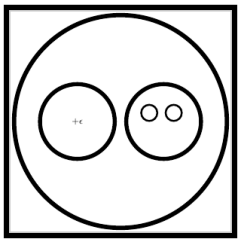
**(b)**



**(c)**



**(d)**



**Q42.** Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.

17*18*6*5*2*10

**(a)** ×, -, ÷, +, =

**(b)** ×, -, +, ÷, =

**(c)** +, ÷, -, ×, =

**(d)** +, ×, ÷, -, =

**Q43.** 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:

All 'alphas' are 'betas'.

No 'beta' is a 'gamma'.

Some 'thetas' are 'alphas'.

Conclusions:

I. Some gammas are alphas.

II. Some thetas are betas.

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III. No alpha is a gamma.

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

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

1778, 1609, 1465, 1344, 1244, ?

**(a)** 1144
**(b)** 1109
**(c)** 1178
**(d)** 1163

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

17*4*63*7*21*3*59

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

**Q46.** 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 fourth term related to third term.

27 : 81 :: 18 : 36 :: 33 : ?

**(a)** 121
**(b)** 135
**(c)** 125
**(d)** 131

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




**(a)**



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**(b)**



**(c)**



**(d)**



**Q48.** Which letter-cluster will replace the question mark (?) to complete the given series?

GOWB, MVEK, SCMT, ?, EQCL

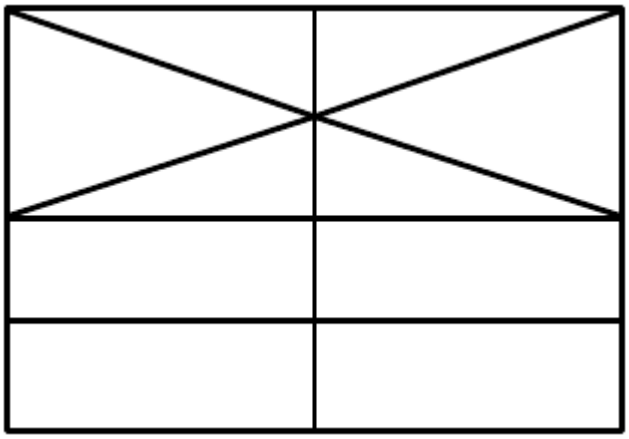
**(a)** YKUC
**(b)** YKCU
**(c)** YJCU
**(d)** YJUC

**Q49.** Select the correct combination of mathematical signs to replace the * signs and to balance the given equation.

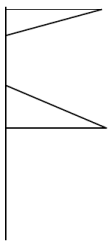
25 * 3 * 5 * 15 * 1

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

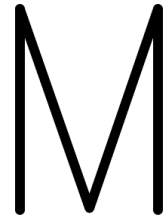
**Q50.** Select the options figure which is embedded in the given figure (rotation is NOT applicable).



**(a)**



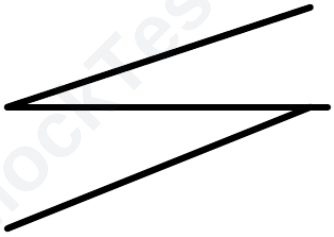
**(b)**



**(c)**



**(d)**



## QUANTITATIVE APTITUDE

**Q51.** What is the value of 1980 ÷ 9 + [-77 + {-1980 + (1/4 of 7920)}] ?

**(a)** 1990
**(b)** 1980
**(c)** 164
**(d)** 143

**Q52.** Vinod had Rs. 10,000 with him. He lent a part of it at 8% per annum simple interest and the remaining at 10% per annum. His total annual income was Rs. 880. Find the sum lent at 8%.

**(a)** Rs. 5,500
**(b)** Rs. 6,000
**(c)** Rs. 5,000
**(d)** Rs. 6,500

**Q53.** During his entire school life, John's average marks in science were 80% and his average marks in mathematics were 90%. If his combined average marks in science and mathematics were 84%, while the total maximum marks in science were 54,000, what were the total maximum marks in mathematics?

**(a)** 90000
**(b)** 81000
**(c)** 36000
**(d)** 60000

**Q54.** Namitha gives a 20% discount on all things in her shop and yet makes a profit of 12%. What is the cost price of an item with marked price of Rs. 280?

**(a)** Rs. 215
**(b)** Rs. 210
**(c)** Rs. 212
**(d)** Rs. 200

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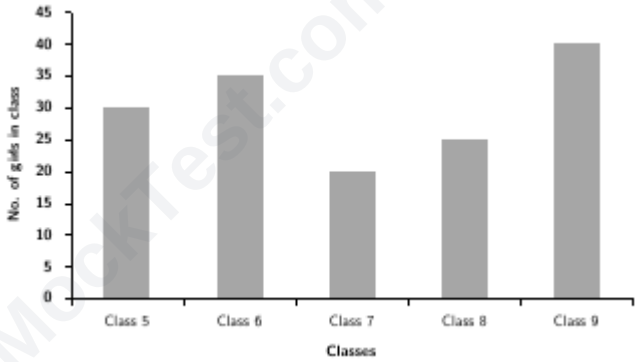
**Q55.** Aman has taken a loan of Rs. 50,000 from a bank at the rate of 8% to be compounded annually. How much does he have to pay after 3 years? (Nearest to a Rs. )

**(a)** Rs. 62,517
**(b)** Rs. 62,871
**(c)** Rs. 62,986
**(d)** Rs. 62,000

**Q56.** A man runs 200 metres in 24 seconds. His speed is:

**(a)** 30 km/h
**(b)** 32 km/h
**(c)** 24 km/h
**(d)** 33 km/h

**Q57.**




Study the given bar graph and calculate the average number of girls studying in the 5^(th), 6^(th) and 8^(th) grades.

**(a)** 32.5
**(b)** 20.33
**(c)** 30
**(d)** 28.33

**Q58.** If x is the fourth proportional of 48, 72 and 108, what is the value of x?

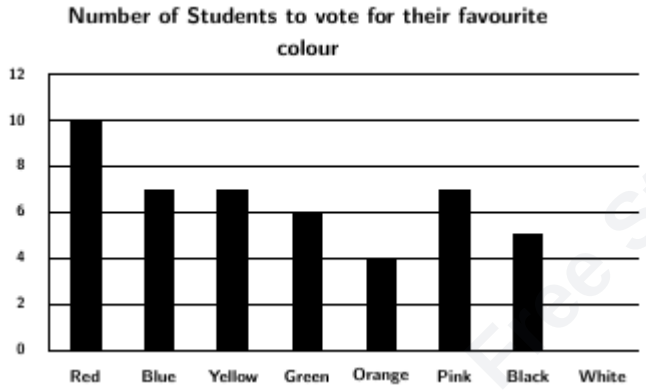
**(a)** 72
**(b)** 144
**(c)** 120
**(d)** 162

**Q59.** In an election between Ram and Shyamal, one got 30% of the polled votes and thus lost by 900 votes. If 90% of the voters voted and no invalid or illegal votes were cast, then what was the number of voters on the voting list?

**(a)** 2800
**(b)** 2500
**(c)** 2700
**(d)** 2300

**Q60.** As per the data on the basis of which the following bar graph has been constructed, how many students were surveyed?

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**(a)** 53
**(b)** 51
**(c)** 52
**(d)** 50

**Q61.** A seller gives 4 toys free of cost on buying 14 toys. What percent does the customer get as a discount?

**(a)** 212/9%
**(b)** 222/9%
**(c)** 242/9%
**(d)** 232/9%

**Q62.** Which one of the following numbers is divisible by 24?

**(a)** 569896
**(b)** 478656
**(c)** 480128
**(d)** 543344

**Q63.** While traveling from Nashik to Daman, Harsh drove for 1 hour at a speed of 50 km/h and for the next three hours at 60 km/h. What was his average speed for the whole trip?

**(a)** 56 km/h
**(b)** 57.5 km/h
**(c)** 55 km/h
**(d)** 58.5 km/h

**Q64.** 6 men or 2 women or 4 boys can finish a work in 77 days. How many days will 1 man, 1 woman, and 1 boy together take to finish the same work?

**(a)** 86
**(b)** 80
**(c)** 84
**(d)** 82

**Q65.** Raghuvir purchased some perishable items for sale but 36% of those items could not be sold and went bad. However, Raghuvir managed to sell the rest of the items at a price that helped him earn an overall profit of 28%. At what percentage above the cost price of each item did Raghuvir sell each of the items that did not go bad?

**(a)** 100%
**(b)** 92%
**(c)** 63%
**(d)** 120%

**Q66.** After melting three cubes of sides 6 cm, 8 cm and 10 cm, a big cube is made. Find the side of the new cube.

**(a)** 13 cm
**(b)** 24 cm
**(c)** 25 cm
**(d)** 12 cm

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**Q67.** Find the volume of a sphere of diameter 21 cm (use π = 22/7)

**(a)** 5232 $cm^3$
**(b)** 6342 cm3
**(c)** 4268 cm3
**(d)** 4851 cm3

**Q68.** If cos(x - y) = (√3)/2 and sin(x + y) = 1, where x and y are positive acute angles and x ≥ y, then x and y are: (0° < (x + y) ≤ 90°)

**(a)** 70°; 20°
**(b)** 50°; 40°
**(c)** 80°; 10°
**(d)** 60°; 30°

**Q69.** The length of each side of a regular hexagon is 10 cm. What is the area of the hexagon?

**(a)** 156√3 $cm^2$
**(b)** 144√3 cm2
**(c)** 148√3 cm2
**(d)** 150√3 cm2

**Q70.** The factors of $a^2 - 1 - 2x - x^2$ are _____.

**(a)** (a - x - 1) (a - x - 1)
**(b)** (a + 1 + x) (a - 1 - x)
**(c)** (a - x + 1) (a - x + 1)
**(d)** (a - x + 1) (a - x - 1)

**Q71.** The area of a square is $9m^2 + 12m + 4$. Find the measure of the side of the square.

**(a)** 3m + 2
**(b)** 3m + 4
**(c)** $3m^2 + 2$
**(d)** $3m^2 + 2m$

**Q72.** A man spends 10.5% of his salary on items of daily use and 30% of the remainder on house rent; after that, he is left with Rs. 12,000. How much is his salary (consider the round-up value)?

**(a)** Rs. 18,050
**(b)** Rs. 19,154
**(c)** Rs. 10,054
**(d)** Rs. 19,000

**Q73.** Simplify $p^3 + 27$

**(a)** $(p + 3)(p^2 - 3p - 9)$
**(b)** (p + 3)(p2 + 3p + 9)
**(c)** (p - 3)(p2 - 3p + 9)
**(d)** (p + 3)(p2 - 3p + 9)

**Q74.** A way of punching data that exhibits the values of the variables and corresponding frequencies is called:

**(a)** an array
**(b)** frequency of observation
**(c)** raw data
**(d)** frequency distribution

**Q75.** Two tangents TP and TQ are drawn to a circle with centre O from an external point T. If TP = 7 cm, find the length of TQ.

**(a)** 7 cm
**(b)** 10.5 cm
**(c)** 3.5 cm

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**(d)** 14 cm

## GENERAL AWARENESS

**Q76.** Which of the following novels is written by Mulk Raj Anand that shows the cruelty of the caste system based on pre-independence era of India?

**(a)** The Village
**(b)** Untouchable
**(c)** Across the Black Waters
**(d)** Coolie

**Q77.** Which organisation was created in 1988 by the World Meteorological Organization (WMO) and the United Nations Environment Program (UNEP) to assess the science related to climate change ?

**(a)** Intergovernmental Panel on Climate Change (IPCC)
**(b)** International Climate Action Network (ICAN)
**(c)** Global Climate Growth Institute (GCGI)
**(d)** Australian Youth Climate Coalition (AYCC)

**Q78.** In the ancient times, which river was also known as 'Ponni' in Tamil which is the fourth largest river flowing in the southeast direction through the states of Karnataka and Tamil Nadu?

**(a)** Kaveri River
**(b)** Satluj River
**(c)** Ravi River
**(d)** Tapi River

**Q79.** The term 'off break' is used in which of the following sports?

**(a)** Football
**(b)** Hockey
**(c)** Badminton
**(d)** Cricket

**Q80.** Who among the following has written the Hindi novel 'Kafan'?

**(a)** Sumitranandan Pant
**(b)** Mahadevi Verma
**(c)** Jaishankar Prasad
**(d)** Premchand

**Q81.** _____ is a situation in the bonds market when the rate of interest falls to its lowest level and the speculative demand for money becomes perfectly elastic.

**(a)** Cash crunch
**(b)** Infinite supply
**(c)** Liquidity trap
**(d)** Zero money velocity

**Q82.** Which Indian musician won the Grammys in 2015 in the Best New Age Album category, his album Winds of Samsara was a collaboration with a South African falutist Wouter Kellerman?

**(a)** Alokananda Dasgupta
**(b)** Sadhu Kokila
**(c)** Rickey Kej
**(d)** Stephen Devassy

**Q83.** Three Indians were named amongst Time Magazine's '100 Most Influential People' of 2021. Who among the following is NOT one of them?

**(a)** Gautam Adani
**(b)** Narendra Modi

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**(c)** Mamta Banerjee
**(d)** Adar Poonawalla

**Q84.** Who among the following is known as Sarangi instrumentalist?
**(a)** T.N Krishnan
**(b)** Narendra Modi
**(c)** T.M Krishna
**(d)** Ustad Bundu Khan

**Q85.** 2021 marked the 145^(th) birth anniversary of the designer of the Indian National Tricolour. What was his/her name?
**(a)** Madame Bhikaji Cama
**(b)** Bankim Chandra Chattopadhyay
**(c)** Pingali Venkayya
**(d)** Annie Besant

**Q86.** What is the percentage of land used for agriculture in India as per the 2009 data by National Institute of Hydrology?
**(a)** 51.09%
**(b)** 50.09%
**(c)** 59.09%
**(d)** 59.01%

**Q87.** Sonal Mansingh, the classical dance legend, has NOT received which of the following awards?
**(a)** Sangeet Natak Akademi Award
**(b)** Padma Vibhushan
**(c)** Padma Shri
**(d)** Padma Bhushan

**Q88.** Who among the following Indian musicians introduced shehnai to the concert stage and was selected to perform for the ceremony at Delhi's historic Red Fort on the occasion of India's Independence Day on 15 August 1947?
**(a)** Ali Bakhsh
**(b)** Anant Lal
**(c)** Bismillah Khan
**(d)** Ali Ahmad Hussain

**Q89.** The autobiography ‘Unbreakable: An Autobiography’ is written by which of the following sportspersons of India?
**(a)** Yuvraj Singh
**(b)** M C Mary Kom
**(c)** Abhinav Bindra
**(d)** P T Usha

**Q90.** Davis Cup is associated with which of the following sports?
**(a)** Badminton
**(b)** Football
**(c)** Hockey
**(d)** Tennis

**Q91.** What kind of substances are separated using the technique of steam distillation?
**(a)** Coloured substances
**(b)** Substances with many electrons
**(c)** Coarse substances
**(d)** Substances that are steam volatile

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**Q92.** Identify the acid that helps in digestion.

**(a)** Nitric acid
**(b)** Acetic acid
**(c)** Hydrochloric acid
**(d)** Sulphuric acid

**Q93.** DDT adversely affects our environment because:

**(a)** it can kill beneficial insects like honey bees
**(b)** it can allow growth of harmful insects
**(c)** it can promote growth of harmful insects
**(d)** it can kill harmful insects

**Q94.** Which of the following Indian classical singers was known as Mallika-e-Ghazal or the Queen of Ghazal and got appreciations by the Nightingale of India, Sarojini Naidu at the age of fifteen?

**(a)** Chitra Singh
**(b)** Begum Akhtar
**(c)** Suraiya
**(d)** Amrutha Suresh

**Q95.** Which of the following Odissi dancers is also a master of percussion instruments like Mridangam, Pakhavaj and Tabla?

**(a)** Kelucharan Mohapatra
**(b)** Sujata Mohapatra
**(c)** Ramani Ranjan Jena
**(d)** Sudhakar Sahoo

**Q96.** Which unicellular organism acquires food by a process in which cells absorb external material by engulfing it with the cell membrane?

**(a)** Yeast
**(b)** Volvox
**(c)** Amoeba
**(d)** Spirogyra

**Q97.** Which of the following Indian classical Bharatanatyam dancers received the honours of Padma Shri in 1981 and Padma Bhushan in 2003?

**(a)** Savitha Sastry
**(b)** Mallika Sarabhai
**(c)** Rukmini Devi
**(d)** Padma Subrahmanyam

**Q98.** Mallika Sarabhai, a Kuchipudi and Bharatanatyam dancer, was awarded with the Padma Bhushan in which of the following years?

**(a)** 2012
**(b)** 2008
**(c)** 2006
**(d)** 2010

**Q99.** In February 2022, which of the following persons was nominated for Laureus 'World Breakthrough of the Year' award?

**(a)** Max Parrot
**(b)** Sachin Tendulkar
**(c)** Neeraj Chopra
**(d)** Vinesh Phogat

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**Q100.** _____ of the Constitution of India provides protection against arrest and detention in certain cases.

**(a)** Article 25
**(b)** Article 22
**(c)** Article 23
**(d)** Article 20

## ANSWER KEY

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

## SOLUTIONS

**Q1. Answer: (c) alternative, apart**

The correct answer is-'alternative, apart'.

Key Points

• Let's check each option:
• Option 1:
• alarming: that makes you frightened or worried
• near: not far away in time or distance; close
• Option 2:
• adverse: making something difficult for somebody
• different: not the same
• Option 3:
• alternative: that you can use do, etc., instead of something else
• apart: away from somebody/something or each other; not together
• Option 4:
• alternating: to cause two types of events or things to happen or regularly follow one after the other
• closely: without a big difference between two people, groups, or things

Hence, the most appropriate option to fill in the blanks is 'alternative, apart'.

• Thus, option 3 is the correct answer.

The correct sentence is: I suggested her two alternative dates, both in the coming month and just a few days apart from each other, to start her singing practice.

**Q2. Answer: (b) CDAB**

The correct answer is "CDAB"

Key Points

• The jumbled sentences can be solved by what exactly the topic is and where it leads to.
• Rearrange the sentences in a sequence as per the events that happened.

Additional Information

• There are four jumbled arrangements in the options given.
• Find which Option comes first and mark the answer according to that.

• Options 3 and 4 don't synchronize but for Options 1 and 2, we can focus as it starts with the Smartphone the root of the topic.

• Option 2 has a systematic arrangement of the sentence like the Smartphone as a communication device, the advantages, a suitable platform to explore new feeds and finally the worldwide impact of social media.

**Q3. Answer: (b) Disregard**

The correct answer is Disregard.

Key Points

• The most appropriate antonym of the given word 'Desiderate' is 'Disregard'.

• Desiderate: feel a keen desire for.

• Meaning of the given options:

• Quarrel*:* an angry argument or disagreement

• Disregard: to take no notice of somebody/something; to treat something as unimportant

• Acquire: to obtain or buy something

• Mandate: the power that is officially given to a group of people to do something, especially after they have won an election

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

**Q4. Answer: (c) Conscientous**

The correct answer is Conscientous.

Key Points

• The correct spelling of 'Conscientous' according to the English dictionary is 'Conscientious'.

• The word 'Conscientious' means 'careful to do something correctly and well'.

• Example: He’s a conscientious worker.

• Hence, the most appropriate answer is 'Conscientous'.

Additional Information

• Let's understand the meaning of other options.

• Inscrutable- not showing any emotions and therefore difficult to understand or know.

• Banality- the fact or condition of being banal; unoriginality.

• Giddyap- command (as to a horse) to go ahead or go faster.

**Q5. Answer: (d) petitioner**

The correct answer is 'petitioner'.

Key Points

• The most appropriate synonym of the given word 'litigant' is 'petitioner'.

• litigant: a person who is taking legal action in a court of law.

• Meaning of the given options:

• detective: a person, especially a police officer, who tries to solve crimes

• culprit: a person who has done something wrong

• abuser: someone who treats another person in a cruel, violent, or unfair way

• petitioner: a person who presents a petition to an authority in respect of a particular cause.

• Therefore, as per the points mentioned above, we find that the correct answer is Option 4.

**Q6. Answer: (d) The panel will publish the outcome of the interview by next week.**

The correct answer is 'The panel will publish the outcome of the interview by next week.'

Key Points

• The given sentence is in Future Tense and in Passive Voice.

• The rule for changing a sentence in Future Tense from Passive voice to Active voice:

• Interchange the object and subject with each other, i.e., the object of the passive sentence becomes the subject of the active sentence.

• The active voice starts with the object of the passive voice.

• Convert the verb into 1st form of the verb.

• Structure: Subject + will/shall + V1 + object (Active Voice)

Object + will/shall + be + V3 + by + Subject (Passive Voice).

• Solution: The outcome of the interview will be published by next week. (Passive Voice)

The panel will publish the outcome of the interview by next week. (Active Voice)

• Therefore, the correct answer is 'The panel will publish the outcome of the interview by next week.'

Additional Information

• In Active Voice, a sentence emphasizes the subject performing an action.

• In Passive Voice, the sentence emphasizes the action or the object of the sentence.

• Example: He reads a novel. (Active Voice)

A novel is read by him. (Passive Voice)

**Q7. Answer: (c) jealous**

The correct answer is jealous.

Key Points

• The most appropriate meaning of the idiom 'green-eyed' is 'jealous'.

• green-eyed: jealous; envious; distrustful

• Example: this is where I get a bit green-eyed and bitter.

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

Correct meaning: jealous.

Additional Information

| Idiom | Meaning | Example |
|---|---|---|
| play (merry) hell with sth | to seriously damage or confuse something | The power cuts played hell with our computers. |
| play (sth) by ear | to play a piece of music by remembering the notes | He did not need sheet music. He could play the piece by ear. |
| play a joke/trick on sb | to confuse someone or cause a problem for them | Fate played a cruel trick on him when he was injured in his first game. |

**Q8. Answer: (a) inaction**

The correct answer is 'inaction'.

Key Points

• The most appropriate antonym of the given word 'exertion' is 'inaction'.

• exertion: using your body in a way that takes a lot of effort

• Meaning of the given options:

• inaction: doing nothing; lack of action

• suffocation: death caused by not having enough oxygen

• traction: the action of pulling something along a surface; the power that is used for doing this

• reaction: something that you do or say because of something that has happened

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

**Q9. Answer: (c) inferior**

The correct answer is inferior.

Key Points

• The most appropriate antonym of the given word 'sublime' is 'inferior'.

• sublime: of extremely high quality that makes you admire something very much.

• Meaning of the given options:

• superior: better than usual or than somebody/something else

• interior: the inside part of something

• inferior: low or lower in social position, importance, quality, etc.

• exterior: on the outside

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

**Q10. Answer: (c) Cramp**

The correct answer is Cramp.

Key Points

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• The most appropriate meaning of the idiom 'Charley horse' is 'Cramp'.
• Charley horse: the common name for a muscle spasm or cramp.
• Example: I got a bad Charley Horse after swimming for an hour.
• Therefore, as per the points mentioned above, the correct answer is option 3.

Correct meaning: Cramp

Additional Information

| Idiom | Meaning | Example |
|---|---|---|
| play (merry) hell with something | to seriously damage or confuse something | The power cuts played hell with our computers. |
| play (something) by ear | to play a piece of music by remembering the notes | He did not need sheet music. He could play the piece by ear. |
| play a joke/trick on somebody | to confuse someone or cause a problem for them | Fate played a cruel trick on him when he was injured in his first game. |

**Q11. Answer: (c) The minister hoisted the national flag.**

The correct answer is 'The minister hoisted the national flag.'

Key Points

• The given sentence is in Past Tense and in Passive Voice.
• The rule for changing a sentence in Past Tense from Passive voice to Active voice:
• Interchange the object and subject with each other, i.e., the object of the passive sentence become the subject of the active sentence.
• The active voice starts with the object of the passive voice.
• Convert the verb into the V2 form of the verb.
• Structure: Object + was/were + V3 + by + Subject (Passive Voice)

Subject + V2 + object (Active Voice)

• Solution: The national flag was hoisted by the minister. (Passive Voice)

The minister hoisted the national flag. (Active Voice)

• Therefore, the correct answer is 'The minister hoisted the national flag.'

Additional Information

• In Active Voice, a sentence emphasizes the subject performing an action.
• In Passive Voice, the sentence emphasizes the action or the object of the sentence.
• Example: He reads a novel. (Active Voice)

A novel is read by him. (Passive Voice)

**Q12. Answer: (c) dilemma**

The correct answer is-'dilemma'.

Key Points

• Let's check each option:
• pain: the unpleasant feeling that you have when a part of your body has been hurt or when you are ill
• depression: a mood disorder that causes a persistent feeling of sadness and loss of interest
• dilemma: a situation in which you have to make a difficult choice between two or more things
• distress: the state of being very upset or of suffering great pain or difficulty
• Hence, the most appropriate option to fill in the blank is 'dilemma'.
• Thus, option 3 is the correct answer.

The correct sentence is: Prerna is in a great dilemma about whether to go for the party or not.

**Q13. Answer: (b) winning**

The correct answer is winning.

Key Points

• The most appropriate meaning of the given idiom 'carried the day' is 'winning'.
• carried the day: be victorious or successful.
• Example: They had a bad start, but the home team managed to have carried the day in the end

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

Correct meaning: winning*.*

**Q14. Answer: (b) suzeranity**

The correct answer is suzeranity.

Key Points

• The correct spelling of 'suzeranity' according to the English dictionary is 'suzerainty'.

• The word 'suzerainty' means 'the right of a country to partly control another'.

• Example: Japan acknowledged Russian suzerainty over the island of Sakhalin.

• Hence, the most appropriate answer is 'suzeranity'.

Additional Information

• Let's understand the meaning of other options.

• nominal- being something in name only but not in reality.

• Buddhist- a person whose religion is Buddhism.

• theocracy- a system of government in which priests rule in the name of God or a god.

**Q15. Answer: (a) abdicated**

The correct answer is-'abdicated'.

Key Points

• Let's check each option:

• abdicated: to give up being King or Queen

• stepped: to lift one foot and put it down in a different place when you are walking

• sacrificed: to give up something that is important or valuable to you in order to get or do something that seems more important

• sacrileged: treating a religious object or place without the respect that it deserves

• Hence, the most appropriate option that can be used as a one-word substitute for the given group of words 'renounced the throne' is 'abdicated'.

• Thus, option 1) is the correct answer.

**Q16. Answer: (c) Blizard**

The correct answer is Blizard.

Key Points

• The correct spelling of 'Blizard' according to the English dictionary is 'Blizzard'.

• The word 'blizzard' means 'a very bad storm with strong winds and a lot of snow'.

• Example: We were snowed in by a raging blizzard.

• Hence, the most appropriate answer is 'Blizard'.

Additional Information

• Let's understand the meaning of other options.

• Brusque- using very few words and sounding rude.

• Boisterous- (used about a person or behaviour) noisy and full of energy

• Blonde- (a person) with fair or yellow hair.

**Q17. Answer: (c) Games are liked to be played by children all the time.**

The correct answer is "Games are liked to be played by children all the time".

Key Points

• The active form of a sentence is changed to its passive form by interchanging the object and subject.

• In the sentence "Children like to play games all the time", "all the time" is the adjunct which does not undergo any changes.

• In "Children like to play games", "Children" is the subject, "like" is the verb and "to play games" is the object.

• The passive of it will be "Games are liked to be played by children".

• If the adjunct is also added, the complete sentence is "Games are liked to be played by the children all the time".

Additional Information

• The sentence can be divided into Subject, Verb and Object.

• Example: Adam eats chocolates.

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• The subject is usually the noun. It denotes the actor of the action. Here,"Adam" is the subject.
• The verb is also referred to as the Predicate. It denotes action. In the given sentence, "eats" is the verb.
• Object denotes the sufferer of the action. Here, "chocolates" is the object.

**Q18. Answer: (d) Bravery**

The correct answer is Bravery

Key Points

• SYNONYM is a phrase or word with the same or well almost the same meaning as another phrase or word.
• The word Bravery is a noun which means fearless behavior or character.

Example : Saving a dog from dog catchers was an act of bravery.

• The word Boldness means eagerness to take dangers and act imaginatively; confidence or strength.

Example : She crossed all the limits of boldness by wearing that dress.

• The meaning of word boldness is similar to the meaning of word bravery, hence bravery is the answer.

Additional Information

• The word Hard heartedness means missing in sympathetic understanding

Example : You would have to be pretty hard-hearted not to feel something for him.

• The word Eagerness means excitement to do or to have something; perception.

Example : I appreciated her eagerness to learn more.

• The word Wisdom means the quality of having experience, information, and great judgment; the quality of being astute.

Example : Wisdom is the key to success.

**Q19. Answer: (d) as much for family members**

The correct answer is "as much for family members".

Key Points

• "As for family members" means caring for the family member without any emotion.
• "Much", being a determiner means to a great extent.
• Example: Rita likes this dress very much.
• "As much for family members" means caring for the family members to a great extent.
• It adds more meaning and depth to the sentence.
• Therefore, the appropriate option is "as much for family members".

Additional Information

• Determiners are used in referring and quantifying.
• Referring means it points to the referent of the noun and Quantifying means it denotes the quantity.
• Determiners can basically be divided into articles, demonstrative and personal.
• Articles - a, an, the.
• Example: I had an awful day.
• Demonstrative - this, that, these, those.
• Example: He wants this book.
• Personal - my, his, their.
• Example: Both my children are playing.

**Q20. Answer: (c) Emigrant**

The solution is in Hindi. Read it online.

**Q21. Answer: (d) walked**

The Correct answer is Walked.

Key Points

• The word walked is the past form of word walk.
• The word walk is a verb which means to lift and lower each foot in turn, moving at a consistent pace, never lifting both feet off the ground at once.
• Examples - Walk : Lets go for an evening walk, Walked - He walked towards me and hugged me.

Additional Information

• The word Stalked is an adjective which means a series of unwelcome actions intended at one individual in particular that prompts them to alter their routine or feel scared, anxious, or in danger

Example: I stalked that boy sometimes.

• The word Danced is past form of word dance which means move in time with the music, usually by performing a predetermined order of actions.

Example : We danced a lot yesterday night.

• The word Slept is past tense of word sleep which means be sleeping; be in a condition of slumber.

Example : I slept early yesterday.

**Q22. Answer: (c) off**

The correct answer is Off

Key Points

• Adverbs are modifier, also known as a qualifier, is a word or phrase that describes or qualifies an adjective, verb, or other adverb or word group, expressing a relationship of location, time, event, manner, cause, degree, etc (e.g., gently, quite, then, there ).

• The word off is an adverb which means at or a distance from the location in question.

• Example : Hey man, back off!

Additional Information

• The word under is a preposition which means Extending from or positioned beneath something.

Example : The cat was sitting under the bench.

• The word inside is a noun which means the surface or inside of anything.

Example : Look inside the basket.

• The word over is a preposition which means a layer or level above than.

Example : Why are you falling over me?

**Q23. Answer: (d) open**

The correct answer is Open.

Key Points

• Adjective is a term designating a noun's quality, such as sweet, red, or technical.

• The word open is an adjective which means not closed or barred; enabling access, passage, or a view through an empty gap.

• Example : Can you please open the can for me?

Additional Information

• The word Wet is an adjective which means water or another liquid-covered or saturated.

Example : My Shirt got wet.

• The word Closed is an adjective which means not open.

Example : The store is closed sir.

• The word Dried is means which means by removing or letting go of moisture, preserved.

Example : Dried maple leaves looks beautiful.

**Q24. Answer: (d) façade**

The correct answer is façade.

Key Points

• A noun is a word (other than a pronoun) that is used to name a specific one of these or to identify any of a class of people, places, or things (proper noun).

• The word façade is a noun which means the main entrance of a building, which looks out onto a street or other public area.

• Example : The façade of the home is half-timbere.

Additional Information

• The word Architecture is a noun which means design and construction of structures as an art or discipline..

Example : There is an architecture school near my home.

• The word Tunnel is a noun which means an artificial underground passage, especially one that is dug through a hill or beneath a structure, road, or river.

Example : Atal tunnel is the longest tunnel.

• The word Vent means an opening that let restricted space air, gas, or liquid to enter or exit.

Example : The AC vent is not functioning properly.

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**Q25. Answer: (d) icy**

The correct answer is icy.

Key Points

• An Adjective is a term designating a noun's quality, such as sweet, red, or technical.

• The word icy is an adjective which means composed of or covered in ice.

• Example : I can feel the icy winds straight on my face.

Additional Information

• The word some is a determiner which means an undefined number or quantity.

Example : Can you give me some oranges.

• The word abundantly is an adverb which means plenty; in huge amounts.

Example : The apple grows abundantly in Kashmir.

• The word sparingly is an adverb which means in little numbers; on a limited or irregular basis.

Example : The sharply flavored leaves should be used sparingly.

**Q26. Answer: (a) [figure]**

The image showing opposite faces of a dice is as follows

3 is opposite to 4, 1 is opposite to 6 and 2 is opposite to 5.

The opposite faces are not adjacent to each other.

In option(2) and option(3), 3 and 4 are adjacent to each other, and in option(4) 1 and 6 are a adjacent to each other.

Hence, the correct answer is option(1).

**Q27. Answer: (c) 701**

The pattern followed in the given series is:

Logic: Alternate prime numbers are written starting from 641.

641 then 643 is skipped next is 647..

Again 653 is skipped and next is 659 and so on.

Prime number series:

Hence the correct answer is option 3)

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

Here, the words are to be arranged in alphabetical order. So, the following will be the order.

3. Producer

6. Profound

1. Prophet

2. Prudent

5. Puberty

4. Quest

Therefore, the correct order is 3, 6, 1, 2, 5, 4

Hence, the correct answer is option(4).

**Q29. Answer: (a) T r u r S S S**

Given series:- T _ _ r S S _ T T r _ _ S u T T r r _ _ u

Option(1)

T T r r S S u / T T r r S S u / T T r r S S u.

Option(2)

T T r r S S u / T T r r T S u / T T r r S S u.

Option(3)

T T r r S S u / T T r r S S u / T T r r r T u.

Option(4)

T S r r S S u / T T r r S S u / T T r r S S u.

Only option(1) repeats a pattern, T, r, and S come twice whereas u comes once to complete the series.

T T r r S S u / T T r r S S u / T T r r S S u.

Hence, the correct answer is an option(1)

**Q30. Answer: (d) 9 : 355**

Logic : (Cube of first number ÷ 2) + 0.5 = Second number

Lets check each option and identify which one is different from the rest:

1) 3 : 14

=> ($3^3$÷ 2) + 0.5

=> (27 ÷ 2) + 0.5

=> 13.5 + 0.5

=> 14

2) 5 : 63

=> ($5^3$ ÷ 2) + 0.5

=> (125 ÷ 2) + 0.5

=> 62.5 + 0.5

=> 63

3) 7 : 172

=> ($7^3$ ÷ 2) + 0.5

=> (343 ÷ 2) + 0.5

=> 171.5 + 0.5

=> 172

4) 9 : 355

=> ($9^3$ ÷ 2) + 0.5

=> (729 ÷ 2) + 0.5

=> 364.5 + 0.5

=> 365 ≠ 355

9 : 355 is the odd one out.

Hence, 'option 4' is the correct answer.

**Q31. Answer: (a) 6**

From the following Venn diagram, the total number of girls is 22, 4, 6, and 7. Girls who are dancers 7 and 6 and who are players 4 and 6.

So, the girls who are players and dancers are 6 (common between dancers and players)

Hence, the correct answer is an option(1)

**Q32. Answer: (b) Wall**

Watch : Wrist :: Clock : ?

Watch : Wrist - Watch is wore in the hand

Similarly,

Clock : Wall - Clock is hanged on the walls.

Hence, the correct answer is 'wall'

Additional Information

1. House - In house, there is room, kitchen etc.

3. Room - Room has table, chair, bed etc.

4. Shop - Shop has goods

**Q33. Answer: (c) ÷, +, -, ×, =**

The correct answer is option(3)

By using BODMAS and going by the options

Given Equation: 25*5*10*2*4*7

Interchanging * with signs

Option(1) ×, ÷, -, +, =

=>25 × 5 ÷ 10 - 2 + 4 = 7

=> 25 × 0.5 - 2 + 4 = 7

=> 12.5 - 2 + 4 = 7

=> 16.7 - 2 = 7

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=> 14.7 = 7
=> LHS ≠ RHS
Option(2) -, +, ÷, ×, =
=> 25 - 5 + 10 ÷ 2 × 4 =7
=> 25 - 5 + 5 × 4 = 7
=> 25 - 5 + 20 =7
=> 45 - 5 = 7
=> 40 = 7
=> LHS ≠ RHS
Option(3) ÷, +, -, ×, =
=> 25 ÷ 5 + 10 - 2 × 4 = 7
=> 5 + 10 - 2 × 4 = 7
=> 5 + 10 - 8 = 7
=> 15 - 8 = 7
=> 7 = 7
=> LHS = RHS
Option(4) ÷, ×, -, +, =
=> 25 ÷ 5 × 10 - 2 + 4 = 7
=> 5 × 10 - 2 + 4 = 7
=> 50 - 2 + 4 = 7
=> 54 - 2 = 7
=> 52 = 7
=> LHS ≠ RHS
Therefore, only option(3) satisfies the above equation.
Hence, the correct is an option(3)

**Q34. Answer: (d) 191218410**

LOGIC: Every consonants is coded as its positional value while the vowels are coded as twice of their positional value.
'SKATE' = '191122010'
S = 19
K = 11
A = 2(twice of its value)
T = 20
E = 10(twice of its value)
'ROLLER' = '183012121018'.
R = 18
O = 30(twice of its value)
L = 12
L = 12
E =10(twice of its value)
R = 18
'SLIDE' = ?
S = 19
L = 12
I = 18(twice of its value)
D = 4
E = 10(twice of its value)
'SLIDE' = '191218410'
Hence, the correct answer is option(4).

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**Q35. Answer: (d) GKQFCO**

Here, the following logic is used

“ENSURE” = “FPVTPB”

“EQUITY” = “FSXHRV”

“FINGER” =' '?''

From the above image, '?' will be coded as 'GKQFCO'

Hence, the correct answer is option(4).

**Q36. Answer: (c) 744**

The correct answer is option(3)

Here, the following logic is used

Therefore, '?' will be replaced by '744'.

Hence, the correct answer is option(3).

**Q37. Answer: (a) Sunday**

In any two consecutive ordinary years, date of the next year will be one day ahead of the same date of the previous year

15th October 2008 = Wednesday

15th October 2009 = Thursday

15th October 2010 = Friday

15th October 2011 = Saturday

If a leap year comes immediately after an ordinary year, then the day on a certain date of the leap year will be 2 days ahead of the same date on the ordinary year from March to December.

15th October 2012 = Monday(Leap year)

14th October 2012 = Sunday (One day before 15th October 2012)

Hence, the correct answer is option(1).

**Q38. Answer: (b) OMIBEL**

Here, first and second letter interchanged their positions, third and fourth letter interchanged their positions and fifth and sixth interchanged their positions.

Therefore, "MOBILE" will be written as "OMIBEL"

Hence, the correct answer is option(2).

**Q39. Answer: (c) 109**

Here, the following pattern is used.

When we multiply first number with 3 and add 1, we get the second number.

First number × 3 + 1 = Second number

First pair = 18 × 3 + 1 = 54 + 1 = 55

Second pair = 28 × 3 + 1 = 84 + 1 = 85

Third pair = 36 × 3 + 1 = 108 + 1 = 109

Therefore, '?' will be replaced by '109'.

Hence, the correct answer is option(3)

**Q40. Answer: (c) [figure]**

The correct answer is option(3)

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

Hence, the correct answer is option(3).

**Q41. Answer: (d) [figure]**

Peaches and Lychees both are fruits but are different from each other.

Hence, the correct answer is option(4).

**Q42. Answer: (c) +, ÷, -, ×, =**

The correct answer is option(3)

By using BODMAS and going by the options

Given Equation:- 17*18*6*5*2*10

Interchanging * with signs

Option(1) ×, -, ÷, +, =

=> 17 × 18 - 6 ÷ 5 + 2 = 10

=> 17 × 18 - 1.2 + 2 = 10

=> 136 - 1.2 + 2 = 10

=> 138 -1.2 = 10

=> 136. 8 = 10

=> LHS ≠ RHS

Option(2) ×, -, +, ÷, =

=> 17 × 18 - 6 + 5 ÷ 2 = 10

=> 17 × 18 - 6 + 2.5 = 10

=> 306 - 6 + 2.5 = 10

=> 308.5 - 6 = 10

=> 302.5 = 10

=> LHS ≠ RHS

Option(3) +, ÷, -, ×, =

=> 17 + 18 ÷ 6 - 5 × 2 = 10

=> 17 + 3 - 5 × 2 =10

=> 17 + 3 - 10 = 10

=> 20 -10 = 10

=> 10 = 10

=> LHS = RHS

Option(4) +, ×, ÷, -, =

=> 17 + 18 × 6 ÷ 5 - 2 = 10

=> 17 + 18 × 1.2 - 2 = 10

=> 17 + 21.6 - 2 = 10

=> 38.6 - 2 = 10

=> 36.6 = 10

=> LHS ≠ RHS

Therefore, only option(3) satisfies the above equation.

Hence, the correct answer is option(3)

**Q43. Answer: (c) Both conclusions II and III follow.**

Statements:

All 'alphas' are 'betas'.

No 'beta' is a 'gamma'.

Some 'thetas' are 'alphas'.

Conclusions:

I. Some gammas are alphas.

II. Some thetas are betas.

III. No alpha is a gamma.

Conclusion 1 : False. Since all alphas are betas and no beta is gamma, that means no gamma is alphas. And conclusion I does not follows.

Conclusion II : True. All alphas are betas and some alphas are thetas, that means some thetas are betas as well. And conclusion II follows

Conclusion III : True. Since all alphas are betas and no beta is gamma, that means no alpha is gamma. And conclusion III follows

Therefore, only conclusion II and conclusion II follow.

Hence, the correct answer is option(3)

**Q44. Answer: (d) 1163**

Here, the following logic is followed

1778 - (13 × 13) = 1778 - 169 = 1609

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1609 - (12 × 12) = 1609 - 144 = 1465
1465 - (11 × 11) = 1465 - 121 = 1344
1344 - (10 × 10) = 1344 - 100 = 1244
1244 - (9 × 9) = 1244 - 81 = 1163
Therefore, '?' will be replaced by '1163'
Hence, the correct answer is option(4)

**Q45. Answer: (a) ×, +, ÷, -, +, =**

By using BODMAS and going by the options
Given Equation :- 17*4*63*7*21*3*59
Interchanging * with signs
Option (1) ×, +, ÷, -, +, =
=> 17 × 4 + 63 ÷ 7 - 21 + 3 = 59
=> 17 × 4 + 9 - 21 + 3 = 59
=> 68 + 9 - 21 + 3 = 59
=> 80 - 21 = 59
=> 59 = 59
=> LHS = RHS
Option(2) =, -, ×, +, -, ÷
=> 17 = 4 - 63 × 7 + 21 - 3 ÷ 59
=> 17 = 4 - 63 × 7 + 21 - 0.0508
=> 17 = 4 - 441 + 21 - 0.0508
=> 17 = 25 - 441 - 0.0508
=> 17 = - 416.0508
=> LHS ≠ RHS
Option(3) -, ×, +, =, ÷, -
=> 17 - 4 × 63 + 7 = 21 ÷ 3 - 59
=> 17 - 4 × 63 + 7 = 7 -59
=> 17 - 252 + 7 = - 52
=> -252 + 24 = - 52
=> - 228 = - 52
=> LHS ≠ RHS
Option(4) =, -, ×, +, ÷, -
=> 17 = 4 - 63 × 7 + 21 ÷ 3 - 59
=> 17 = 4 - 63 × 7 + 7 - 59
=> 17 = 4 - 441 + 7 - 59
=> 17 = 11 - 441 - 59
=> 17 = 11 - 500
=> 17 = - 489
=> LHS ≠ RHS
Therefore, only option(1) satisfies the above equation.
Hence, the correct answer is option(1)

**Q46. Answer: (a) 121**

Here, the following logic is applied,
27 : 81 = (27 ÷ 3)²= 9² = 81
18 : 36 = (18 ÷ 3)2 = 62 = 36
33 : ? = (33 ÷ 3)2 = 112 = 121
Therefore, '?' will be replaced by '121'.
Hence, the correct answer is option(1)

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**Q47. Answer: (c) [figure]**

Correct answer is an option(3)

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

Hence, the correct answer is an option(3).

**Q48. Answer: (d) YJUC**

Given:- GOWB, MVEK, SCMT, ?, EQCL

Here, the following logic is used.

Therefore, '?' will be replaced by 'YJUC'

Hence, the correct answer is option(4)

**Q49. Answer: (d) ×, =, ×, ×**

By using BODMAS and going by the options

Given equation :- 25 * 3 * 5 * 15 * 1

Interchanging * with signs

Option(1) =, +, +, +

=> 25 = 3 + 5 + 15 + 1

=> 25 = 24

=> LHS ≠ RHS

Option(2) +, =, +, -

=> 25 + 3 = 5 + 15 - 1

=> 28 = 25 - 1

=> 28 = 24

=> LHS ≠ RHS

Option(3) ÷, ×, ×, =

=> 25 ÷ 3 × 5 × 15 = 1

=> 8.33 × 5 × 15 = 1

=> 624.75 = 1

=> LHS ≠ RHS

Option(4) ×, =, ×, ×

=> 25 × 3 = 5 × 15 × 1

=> 75 = 75

=> LHS = RHS

Only option(4) satisfies the above equation

Hence, the correct answer is an option(4)

**Q50. Answer: (c) [figure]**

Let's check every option one by one

From the above, it is clear that only option (3) has embedded in the question figure.

Hence, the correct answer is option(3)

**Q51. Answer: (d) 143**

Given:

1980 ÷ 9 + [-77 + {-1980 + (1/4 of 7920)}]

Concept used:

Follow the BODMAS rule according to the table given below:

Calculation:

1980 ÷ 9 + [-77 + {-1980 + (1/4 of 7920)}]

=> 1980 ÷ 9 + [-77 + {-1980 +1980}]

=> 220 + -77

=> 143

Therefore The correct answer is 143.

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**Q52. Answer: (b) Rs. 6,000**

Given:
Principal (P) = 10,000,
Rate of interest(R) = 8% & 10%,
Time (T) = 1 year
Annual Income = Rs 880
Formula used:
S.I. = (P × R × T)/100
Calculation:
SI on the sum of 10,000 at the rate of 8% per annum = 10000 × 8/100
=Rs 800
Total annual Income = Rs 880
Extra interest in 1 year = 880 - 800 = Rs 80
(10 - 8) = 2% corresponds to Rs 80
100% corresponds to Rs 4000
Money invested on 2nd part = 4000
Money invested on 1st part = 10000 - 4000 = 6000
Therefore The sum lent on 8% is 6000.

**Q53. Answer: (c) 36000**

Given:
Average marks in science = 80%
Average marks in mathematics = 90%
Whole average = 84%
Marks Obtained in science were 54,000.
Concept used:
Concept of Allegation.
Calculation:
The ratio of marks in Science and Mathematics is 3 : 2.
According to the question:
Let the ratio be 3x : 2x.
The value of 3x is 54,000.
=> 3x = 54000
=> x = 18000
The value of 2x is
=> 2 × 18000
=> 36000
Therefore The Correct Answer is 36,000.

**Q54. Answer: (d) Rs. 200**

Given:
Profit = 12%
Discount = 20%
Marked Price = Rs. 280
Formula Used:
MP/CP = (100 + Profit%)/(100 - Discount%)
Calculations:
MP/CP = (100 + Profit%)/(100 - Discount%)
=> 280/CP = (100 + 12)/(100 - 20)
=> 280/CP = (112)/(80)
=> 280/CP = 7/5
=> CP = 5/7 × 280

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=> CP = Rs. 200

Therefore The answer is Rs. 200.

Shortcut TrickDiscount % = 20% = 1/5

Ratio of M.P. to S.P. = 5 : 4 }_(×7)

Profit % = 12% = 3/25

Ratio of C.P. to S.P. = 25 : 28

So, combined ratio of C.P: S.P : M.P. = 25 : 28 : 35

=> 35 units = Rs. 280

=> 25 units = (280/35) × 25 = Rs. 200

**Q55. Answer: (c) Rs. 62,986**

Shortcut Trick

For 3 years at 8%, the effective Compound Interest rate is 25.9712%.

Amount = Principal × $(1 + R/100)^3$

Amount = 50,000 × $(1.08)^3$

Amount = 50,000 × 1.259712 = 62,985.6

Rounding to the nearest rupee, we get Rs. 62,986.

Therefore The correct answer is Rs. 62,986.

Alternate Method

Given:

Principal (P) = Rs. 50,000

Rate (R) = 8% per annum

Time (n) = 3 years

Formula Used:

Amount (A) = P × $(1 + R/100)^n$

Calculations:

=> A = 50,000 × $(1 + 8/100)^3$

=> A = 50,000 × (108/100) × (108/100) × (108/100)

=> A = 50,000 × (27/25) × (27/25) × (27/25)

=> A = 50,000 × (19683 / 15625)

=> A = 3.2 × 19683

=> A = 62,985.6

=> A ≈ Rs. 62,986 (Nearest to a Rs. )

Therefore The correct answer is Rs. 62,986.

Additional Information

Compound Interest Formula

CI = Amount − Principal = P[$(1 + R/100)^n$ − 1].

Effective Rate for 3 Years

For a rate r, the effective CI rate for 3 years is $3r + 3r^2/100 + r^3/10000$ %.

Difference between CI and SI

For 3 years, Difference = $PR^2(300 + R) / 100^3$.

**Q56. Answer: (a) 30 km/h**

Given:

Distance = 200 m

Time = 24 s

Concept Used:

Speed = Distance/Time.

1 m/s = 18/5 km/hr

Calculation:

=> S = 200/24

1 m/s = 5/18 km/hr

=> S = 200/24 × 18/5

Therefore S = 30 km/hr.

Hence, the correct answer is option 1).

**Q57. Answer: (c) 30**

Given:

Number of girls in 5th class = 30

Number of girls in 6th class = 35

Number of girls in 8th class = 25

Concept used:

Average = Sum of N numbers/N

Calculation:

The average number of girls studying in the 5th, 6th, and 8th grades is given by:

=> Average = (30 + 35 +25)/3

=> Average = 30

Therefore The correct answer is 30.

**Q58. Answer: (d) 162**

Given:

1st Proportional(a) = 48

2nd Proportional(b) = 72

3rd Proportional(c) = 108

Formula Used:

4th Proportional(d) = (b x c)/a

Calculations:

According to the formula,

=> 4th Proportional(d) = (b x c)/a = (72 x 108)/48 = 162

=> Hence, The fourth proportion is 162.

**Q59. Answer: (b) 2500**

Given:

There are two candidates Ram and Shyam who appeared in an election. The candidate got 30% of the total votes and lost by 900 votes.

Formula:

If A got a% votes and B got b% votes, difference in the votes = (a - b) % of Total votes polled

Calculation:

Let the total votes voted be 100x

The candidate got 30% of the total votes = 30x

Winning candidate got = 100x – 30x = 70x votes

As per the question,

=> 30x + 900 = 70x

=> x = 22.50

Hence the total number of votes is 100x = 100 × 22.5= 2250.

Note that there are 90% of the total voting list.

Let the total number of the voting list be Y.

So according to the question

=> Y × 90% = 2250

=> Y = 2500

Therefore The correct answer is 2500.

**Q60. Answer: (c) 52**

Given:

The number of students to vote for their favorite colour.

Calculation:
The number of students to vote for their favorite red is 10.
Similarly, find all the students from the graph.
Total number of students are = 10 + 7 + 7 + 6 + 4 + 7 + 5 + 6 = 52
Therefore The correct answer is 52.

**Q61. Answer: (b) 222/9%**

Formula Used:
Discount% = (Discount/cost price) × 100
Calculation:
Let the marked price of 1 article = 100
=> MP of 4 articles = 100 × 4 = 400
Actual amount paid if discount is not given = MP of 18 articles = 1800
=> Discount % = (400/1800) × 100 = 222/9%
Therefore The correct answer is 222/9%
Shortcut Trick4 toys are free out of (14 + 4) = 18 toys
Discount % = 4/18 = 2/9 = 222/9%

**Q62. Answer: (b) 478656**

Concept used:
A number is divisible by 24 if it is divisible by both 3 and 8.
Formula used:
Divisibility rule of 3:
A number is divisible by 3 if the sum of the digits of the number is divisible by 3.
Divisibility rule of 8:
The last 3 digits must be divided by 8.
Calculation:
In 569896,
Sum of digits = 5 + 6 + 9 + 8 + 9 + 6
=> 43
Here, the sum is not divisible by 3, the number 569896 is not divisible by 24.
In 478656,
Sum of digits = 4 + 7 + 8 + 6 + 5 + 6
=> 36
Here, the sum is divisible by 3, the number 478656 may be divisible by 24.
Now check for the last 3 digits of 478656 is divisible by 8.
Note that 656/8 = 82.
So, the number 478656 is divisible by 24.
Therefore The number 478656 is divisible by 24.

**Q63. Answer: (b) 57.5 km/h**

Given:
Harsh travels from Nashik to Damant for 1 hr with a speed of 50 km/h,
Again 3 hr with a speed of 60 km/h
Concept used:
Average speed = (Total distance)/(Total time)
Calculation:
()=> Average speed = (1 × 50 + 3 × 60)/(1 + 3)
=> Average speed = (50 + 180)/4 = 57.5 km/h
Therefore The average speed of Harsh is 57.5 km/h.

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**Q64. Answer: (c) 84**

Shortcut Trick6 men or 2 women or 4 boys can complete work in 77 days means,
We can get total work out of any one,
Total work = total number of days × total number of men
=> 77 × 6 = 462
Then, efficiency of each men
=> 462/6x = 77 = 1
Efficiency of each women
=> 462/2x = 77 = 3
Efficiency of each boy
=> 462/4x = 77 = 1.5
Total work done by 1 men, 1 women, & 1 boy
=> 462/(1 + 3 + 1.5) = 84 days
Alternate Method
Given:
6 men or 2 women or 4 boys can finish the work in 77 days
Concept used:
Total number of days × total number of workers = Total work done
Calculation:
As per the question,
The ratio of efficiency of men and women.
=> 6m = 2w
=> m/w = 1/3
=> m : w = 1 : 3..... (1)
Similarly
The ratio of efficiency of women and boys.
=> 2w = 4b
=> w/b = 2/1
Multiply the first ratio with 2 to make the ratio equal.
=> m : w = 2 : 6..... (3)
Multiply the second ratio with 3 to make the ratio equal.
=> w : b = 6 : 3..... (4)
By comparing 3 & 4,
The ratio efficiency of m : w : b is:
=> 2 : 6 : 3
Total work done is:
=> 6(m) × 77 [Total work =efficiency x time]
=> 6 × (2) × 77
=> 924
Total work done by 1 man, 1 woman, 1 boy is
=> 924/(2 + 6 + 3)
=> 84 days
Therefore 84 days will it take for 1 man, 1 woman, and 1 boy to finish work.

**Q65. Answer: (a) 100%**

Given:
36% of items went bad and total profit must be 28 %.
Concept used:
Profit = SP - CP
Profit% = (SP - CP)/CP× 100
S.P. = (C.P. × 100) × (100 + Profit %),
where S.P. → Selling Price, C.P. → Cost Price

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Calculation:
Let the cost of one item is 1 Rs.
Therefore, cost of 100 items will be 100 Rs.
As 36% went bad, so remaining items are 100 - 36 = 64.
Note that total over all profit must be 28 %.
=> S.P. = (C.P. × 100) × (100 + Profit %),
=> S.P. = (100 × 100) × (100 + 28 %),
=> 128 Rs.
Now 64 must items must be sold in 128
Profit = SP - CP
=> 128 - 64
=> 64
Profit% = (SP - CP)/CP× 100
=> 64/64 × 100
=> 100%
Therefore The correct option is 1.

**Q66. Answer: (d) 12 cm**

Given:
Edges of three cubes of metal are 6, 8, 10 cm respectively
Formula Used:
The volume of the cube = (Side)3
Calculation:
The volume of cube 1 = (6)3 cm3
The volume of cube 2 = (8)3 cm3
The volume of cube 3 = $(10)^3$ cm3
=> Total volume = 216 + 512 + 1000 = 1728 cm3
The volume of new cube = 1728 cm3
=> 1728 = (SIde)3
=> Side = $3\sqrt{(12 \times 12 \times 12)}$
=> Side = 12 cm
Therefore The edge of the new cube is 12 cm.
The correct option is 4 i.e. 12 cm

**Q67. Answer: (d) 4851 cm3**

Given:
Diameter is 21 cm.
Concept used:
Volume of Sphere = $4\pi r^3/3$
Calculations:
Diameter of the Sphere = 21/2 = 10.5 cm
Volume of the Sphere
=> $4\pi r^3/3$
=> $4 \times (22/7) \times (10.5)^3/3$
4851 cm3
Hence, the required value is 4851 $cm^3$.

**Q68. Answer: (d) 60°; 30°**

Given:
cos(x - y) = (√3)/2
sin(x + y) = 1
Concept Used:
Calculation:

According to the concept used,
If cos(x - y) = (√3)/2
=> x - y = 30°.....(1)
Again, sin(x + y) = 1
=> x + y = 90°....(2)
Now add 1 & 2
=> 2x = 120°
=> x = 60°
Similary, the value of y = 30°.
Therefore The value of x and y is 60°, 30° respectively.

**Q69. Answer: (d) 150√3 cm2**

Given:
a = 10
Concept used:
Area = A = (3 √3)/2× $a^2$
Solution:
Area = (3 √3)/2× $10^2$
=> 150√3 cm2
Hence, the correct option is 4.

**Q70. Answer: (b) (a + 1 + x) (a - 1 - x)**

Formula Used:
(a2 - b2) = (a + b)(a - b)
Calculation:
a2 - 1 - 2x - x2
=> a2 - (1 + 2x + x2)
By using (a2 - b2) = (a + b)(a - b),
=> a2 - (1 + 2x + x2) = (a + 1 + x) (a - 1 - x)
Therefore The correct option is 2 i.e. (a + 1 + x) (a - 1 - x).

**Q71. Answer: (a) 3m + 2**

Given:
The area of the square = 9m2 + 12m + 4 sq. unit
Formula:
The area of the square = a2
Where, a = Side or length of the square
Calculation:
From the formula
a2 = 9m2 + 12m + 4 (given)
=> a2 = $(3m + 2)^2$
Side of length of the square is 3m + 2 unit.

**Q72. Answer: (b) Rs. 19,154**

Calculation:
Let the monthly salary of man be x.
It is given that man spends 10.5% of his daily, so, remaining balance = 89.5% of x
It is given that out of the balance, he spends 30% on the house rent, so, remaining balance = 70% of 89.5% of x
The value of this remaining balance is given as 12,000.
So, equating these remaining values, we get,
=> 70/100 × 89.5/100 × x = 12000
=> 0.7 × 0895 × x = 12000
x = 19157.33 or Rs. 19,154.

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Hence, option 2 is correct.

**Q73. Answer: (d) (p + 3)(p2 - 3p + 9)**

Given:

p3 + 27

Formula Used:

a3 + b3 = (a + b)(a2 - ab + b2)

Calculation:

p3 + 27

Rewrite the expression:

=> p3 + $3^3$

Using, a3 + b3 = (a + b)(a2 - ab + b2)

=> p3 + $3^3$ = (p + 3)(p2 - 3p + 9)

Therefore The correct answer is option is 4.

**Q74. Answer: (d) frequency distribution**

A frequency distribution is a comprehensive way to organize raw data of a quantitative variable. It shows how different values of a variable are distributed and their corresponding frequencies.

Therefore option 4 is the correct answer.

**Q75. Answer: (a) 7 cm**

Given:

TP = 7 cm

Concept used:

In a circle,Tangents which meet at the same point are equal in length.

Calculation:

TP = 7 cm

Using, Tangents which meet at the same point are equal in length.

Therefore,

TP = TQ = 7

Therefore The value of TQ is 7 cm.

**Q76. Answer: (b) Untouchable**

The correct answer is Untouchable.

Key Points

• Untouchable is written by Mulk Raj Anand that shows the cruelty of the caste system based in the pre-independence era of India.

• That novel turned out to be his seminal debut book, Untouchable (1935), about the struggles and humiliations faced by a toilet cleaner named Bakha.

• After the rather humiliating taunt about what would come to be his first novel, Anand travelled to Ireland and met poets, George Russell and W.B. Yeats.

• Mulk Raj Anand is known for his realistic and sympathetic portrayal of the poor in India.

Additional Information

• The Village is a novel by Mulk Raj Anand first published in 1939.

• This book was the first of a trilogy that included Across the Black Waters and The Sword and the Sickle.

• Across the Black Waters is an English novel by the Indian writer Mulk Raj Anand first published in 1939.

• It describes the experience of Lalu, a sepoy in the Indian Army fighting on behalf of Britain against the Germans in France during World War I.

**Q77. Answer: (a) Intergovernmental Panel on Climate Change (IPCC)**

The correct answer is Intergovernmental Panel on Climate Change (IPCC).

Key Points

• The Intergovernmental Panel on Climate Change (IPCC) was established by the United Nations Environment Programme (UNEP) and the World Meteorological Organization (WMO) in 1988.

• The establishment of the IPCC was endorsed by UN General Assembly in 1988.

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• The IPCC was set up in 1988 by the World Meteorological Organization (WMO) and United Nations Environment Programme (UNEP) to provide policymakers with regular assessments of the scientific basis of climate change, its impacts, future risks, and options for adaptation and mitigation.

Additional Information

• Climate Action Network (CAN) is a global network of more than 1,800 civil society organizations in over 130 countries driving collective and sustainable action to fight the climate crisis and to achieve social and racial justice.

• International Climate Action Network (I-CAN) is a 30-month Erasmus+ funded international project to give teachers the skills, confidence, and framework to enable pupils to become effective critical thinking collaborators and active climate-conscious.

• The Global Green Growth Institute (GGGI) is a treaty-based inter-governmental international development organization headquartered in Seoul, South Korea.

• The Australian Youth Climate Coalition is a youth organization in Australia.

• When the organisation first began, the coalition consisted of 25 other youth organisations, which included the National Union of Students amongst many, however, it is now an independent organization.

**Q78. Answer: (a) Kaveri River**

The correct answer is Kaveri River.

Key Points

• The Cauvery is known as 'Ponni' in Tamil.

• It is the fourth-largest river (Length: 805 km) in south India. Originating in the Western Ghats at Talakaveri in Karnataka's Kodagu district, it passes through Tamil Nadu.

• Tamil Nadu gets most of its rain from the Northeast monsoon.

• The river originates in the Nandi Hills in the Chikkaballapura district of Karnataka and flows through Tamil Nadu before emptying into the Bay of Bengal.

Additional Information

• The Sutlej or Satluj River is the longest of the five rivers that flow through the historic crossroads region of Punjab in northern India and Pakistan.

• The Ravi River is a transboundary river crossing northwestern India and eastern Pakistan. It is one of five rivers associated with the Punjab region.

• The Tapti River is a river in central India located to the south of the Narmada river that flows westwards before draining into the Arabian Sea.

**Q79. Answer: (d) Cricket**

The correct answer is Cricket

Key Points

• An off break is a type of delivery in the sport of cricket and is the attacking delivery of an off-spin bowler.

• Off-break bowlers are known as off-spinners.

• An off break is bowled by holding the cricket ball in the palm of the hand with the seam running across under all the fingers.

Additional Information

• Football is a family of team sports that involve, to varying degrees, kicking a ball to score a goal.

• Hockey is a term used to denote various types of both summer and winter team sports which originated on either an outdoor field, sheet of ice, or dry floor such as in a gymnasium.

• Badminton is a racquet sport played using racquets to hit a shuttlecock across a net. Although it may be played with larger teams, the most common forms of the game are "singles" and "doubles".

**Q80. Answer: (d) Premchand**

The correct answer is Premchand.

Key Points

• Hindi Novel Kafan is written by Munshi Premchand.

• Kafan (The Shroud), by Premchand, translated from Urdu and Hindi by Frances W. Pritchett.

• In 1936, Premchand also published "Kafan" ("Shroud"), in which a poor man collects money for the funeral rites of his dead wife, but spends it on food and drink.

• The story Kafan, by Munshi Premchand, is a classic social-realistic tale of downtrodden victimhood.

Additional Information

• Sumitranandan Pant was an Indian poet. He was one of the most celebrated 20th-century of Hindi language and was known for romanticism in his poems which were inspired by nature, people, and beauty within.

• Mahadevi Varma was an Indian Hindi-language poet, essayist, sketch story writer, and eminent personality of Hindi literature.

• Jaishankar Prasad was a prominent figure in modern Hindi literature as well as Hindi theatre. Prasad was his pen name. He was also known as a Chhayavadi poet.

**Q81. Answer: (c) Liquidity trap**

The correct answer is Liquidity trap.

Key Points

• A liquidity trap is an economic situation where people hoard financial capital instead of investing or consuming it as the interest rates are low and savings rates are high which renders the monetary policy ineffective.

• Speculative demand for money is inversely related to the rate of interest i.e. higher the rate of interest smaller will be speculative demand for money and vice versa.

• Therefore curve of speculative demand for money is downward sloping to right.

• A liquidity trap is caused when people hoard cash because they expect an adverse event such as deflation, insufficient aggregate demand, or war.

Additional Information

• The cash crunch is a term pretty common among start-ups and budding businesses.

• A cash crunch happens when a company runs low on cash; this in a way impacts the operations of the business.

• The PES for perfectly elastic supply is infinite, where the quantity supplied is unlimited at a given price, but no quantity can be supplied at any other price.

• The velocity of money is a measurement of the rate at which money is exchanged in an economy.

**Q82. Answer: (c) Rickey Kej**

The correct answer is Rickey Kej.

Key Points

• City-based musician Ricky Kej walked away with a Grammy for his collaborative album Winds Of Samsara with South African flautist Wouter Kellerman for the Best New Age Album category at the 57th Annual Grammy Awards in Los Angeles.

• Kej also serves as a UNESCO - MGIEP "Global Ambassador for Kindness", UNICEF Celebrity Supporter, and is an ambassador for the Earth Day Network.

• In 2020, Kej was named a GQ Hero 2020 by GQ magazine.

• Kej is credited with over 3,500 placements for radio and television jingles.

Additional Information

• Alokananda Dasgupta is a contemporary music composer.

• Sahaya Sheelan Shadrach known by his screen name Sadhu Kokila, is an Indian musician, actor, comedian, film director and producer, and an occasional screenwriter and lyricist who works in Kannada cinema.

• Stephen Devassy is an Indian musician hailing from Palakkad, Kerala.

**Q83. Answer: (a) Gautam Adani**

The correct answer is Gautam Adani.

Key Points

• Gautam Shantilal Adani is an Indian billionaire industrialist.

• He is the chairman and founder of the Adani Group, an Ahmedabad-based multinational conglomerate involved in port development and operations in India.

• Adani is also the president of the Adani Foundation, which is primarily led by his wife, Priti Adani.

• He has seven siblings. His family was involved in the textile business.

• Infrastructure tycoon Gautam Adani controls Mundra Port, India's largest, in his home state of Gujarat.

Additional Information

• Narendra Damodardas Modi is an Indian politician serving as the 14th and current prime minister of India since 2014.

• Mamata Banerjee is an Indian politician who is serving as the eighth and current chief minister of the Indian state of West Bengal since 20 May 2011, the first woman to hold the office.

• Adar Poonawalla (born 14 January 1981) is an Indian billionaire businessman. He is the chief executive officer (CEO) of the Serum Institute of India.

**Q84. Answer: (d) Ustad Bundu Khan**

The correct answer is Ustad Bundu Khan.

Key Points

• Ustad Binda Khan was the maestro of Sarangi.
• Sarangi has a hollow body and is made of teak wood adorned with ivory inlays.
• Bundu Khan played the sarangi from All India Radio, Delhi Station when it first started broadcasting in 1935.
• He served the princely court of Indore for 27 years as a court musician.

Additional Information

• Trippunithura Narayanaiyer Krishnan was an Indian Carnatic music violinist.
• Thanjavur Brinda (1912-1996) was one of the representatives of the Veenai Dhanammal school of Carnatic Music.
• Thodur Madabusi Krishna is an Indian Carnatic vocalist, writer, activist, author and Ramon Magsaysay awardee.

**Q85. Answer: (c) Pingali Venkayya**

The correct answer is Pingali Venkayya.

Key Points

• Prime Minister Narendra Modi paid homage to the designer of the Indian National flag, Pingali Venkayya on his birth anniversary.
• Pingali Venkayya was an Indian freedom fighter and a Gandhian.
• He was the designer of the flag on which the Indian National Flag was based.
• He was also a lecturer, author, geologist, educationalist, agriculturist, and polyglot.

Additional Information

• Bhikaiji Rustom Cama or simply, Madam Cama, was one of the prominent figures in the Indian independence movement.
• Bankim Chandra Chatterjee CIE was an Indian novelist, poet, and journalist.
• Annie Besant was a British socialist, theosophist, women's rights activist, writer, orator, political party member, educationist, and philanthropist.

**Q86. Answer: (a) 51.09%**

The correct answer is 51.09%.

Key Points

• The use of land for agriculture depends on soil type, irrigation facilities, and climate. In India, about 51.09% of the land is under cultivation, 21.81% under forest, and 3.92% under pasture.
• Agricultural land (% of land area) in India was reported at 60.43 % in 2018, according to the World Bank collection of development indicators, compiled from officially recognized sources.
• Agricultural lands in India were estimated to be 60.45% in 2015. Agriculture is the principal means of income in India.
• Agricultural lands refer to the lands that are suitable for cultivation, that is arable land.

Additional Information

• National Institute of Hydrology is an autonomous society under the Ministry of Water Resources, River Development & Ganga Rejuvenation, Government of India and has been functioning as a research Institute in the area of hydrology and water resources in the country since December 1978 in Roorkee City.

**Q87. Answer: (c) Padma Shri**

The correct answer is Padma Shri

Key Points

• Sonal Man Singh has been nominated by the President of India to become a Member of Parliament, Rajya Sabha.
• She is the youngest recipient of Padma Bhushan in 1992 and Padma Vibhushan in 2003.
• Sonal Mansingh is an Indian classical dancer and Guru Bharatanatyam and Odissi dancing style.

Additional Information

• Sangeet Natak Akademi Puraskar is an award given by the Sangeet Natak Akademi, India's National Academy of Music, Dance & Drama.
• The award is given in three categories, namely:
• Padma Vibhushan for exceptional and distinguished service.
• Padma Bhushan for distinguished service of a high order.
• Padma Shri for distinguished service.

**Q88. Answer: (c) Bismillah Khan**

The correct answer is Bismillah Khan.

Key Points

• Bismillah Khan played the shehnai on 15 August 1947 at the Red Fort.

• He was the first Indian to greet the nation with his musical instrument.

• This event was historic because We got independence on that day.

• On his 102nd birthday, Google honoured Bismillah Khan with a Google doodle.

Additional Information

• Ustad Ali Baksh Jarnail Khan was an Indian classical singer. Together with his friend Fateh Ali Khan, he founded the Patiala Gharana in the 19th century.

• Anant Lal, often referred to by the title Pandit, was an Indian classical musician who played the shehnai.

• He worked for All India Radio and played with artists such as Ravi Shankar and Debu Chaudhuri in addition to recording under his own name.

**Q89. Answer: (b) M C Mary Kom**

The correct answer is M C Marry kom.

Key Points

• Unbreakable: An Autobiography is the autobiography of the unbreakable Mary Kom who never let anything come in between her and her quest for winning.

• She worked hard and showed the world that with mere hard work and utmost dedication it is possible for even a farmer's daughter to become the world's leading woman boxer.

• Mangte Chungneijang Mary Kom OLY is an Indian amateur boxer, politician, and incumbent Member of Parliament, Rajya Sabha.

• She is the only Indian female boxer to have qualified for the 2012 Summer Olympics, competing in the flyweight (51 kg) category.

Additional Information

• The book “The Test of My Life: From Cricket to Cancer and Back” is an autobiography of Yuvraj Singh.

• A Shot at History: My Obsessive Journey to Olympic Gold is a 2011 autobiography of Indian 2008 Summer Olympics Gold medalist Abhinav Bindra.

• Golden Girl: The Autobiography of P.T. Usha is the Autobiography of PT Usha.

**Q90. Answer: (d) Tennis**

The correct answer is Tennis.

Key Points

• The Davis Cup is the World Cup of tennis.

• It is the largest annual international team competition in world sport and was founded in 1900 by Dwight Davis.

• The Davis Cup, the tennis equivalent of the football World Cup, was named after American collegian Dwight Filley Davis, who came up with the idea to start a challenging tennis match between the USA and Great Britain.

• First played in 1900, it was originally called the International Lawn Tennis Trophy.

Additional Information

• Thomas Cup, trophy signifying world supremacy in the sport of badminton.

• In India, Indian Super League is related to Indian football.

• Beighton Cup is related to Hockey.

**Q91. Answer: (d) Substances that are steam volatile**

The correct answer is Substances that are steam volatile.

Key Points

• Steam distillation is employed for those liquids which are insoluble in water, contain non-volatile impurities, and are steam volatile.

• Steam distillation is widely used in the manufacturing of essential oils, for instance, perfumes.

• This method uses a plant material that consists of essential oils.

• Mainly orange oil is extracted on a large scale in industries using this method.

• Steam distillation is used for the isolation of antioxidant and antimicrobial compounds from herbs and species such as clove, rosemary, sage, and thyme.

Additional Information

• Coloured components of a mixture can be separated by a technique called chromatography.

• Charge-induced separation occurs when a charged object is brought close to a neutral one.

• The coarse substance is chalk powder. The powder increases the friction between the bar and the gymnast's hands.

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**Q92. Answer: (c) Hydrochloric acid**

The correct answer is Hydrochloric acid.

Key Points

• The hydrochloric acid in the gastric juice breaks down the food and the digestive enzymes split up the proteins.

• The acidic gastric juice also kills bacteria.

• It also eliminates bacteria and viruses in the stomach, protecting your body from infection.

• Low levels of hydrochloric acid can have a profound impact on the body's ability to properly digest and absorb nutrients.

Additional Information

• Nitric Acid is a strong acid with the chemical formula HNO3.

• It is also known as the spirit of niter and aqua fortis.

• Acetic acid is also known as ethanoic acid, ethylic acid, vinegar acid, and methane carboxylic acid; it has the chemical formula of CH3COOH.

• Sulfuric acid or sulphuric acid, known in antiquity as oil of vitriol, is a mineral acid composed of the elements sulfur, oxygen, and hydrogen, with the molecular formula H2SO4.

**Q93. Answer: (a) it can kill beneficial insects like honey bees**

The correct answer is it can kill beneficial insects like honey bees.

Key Points

• DDT is very insoluble in water and very persistent in the environment, making it a highly polluting hazard.

• Its half-life has been reported to be between 2 and 15 years.

• DDT (dichloro-diphenyl-trichloroethane) was developed as the first of the modern synthetic insecticides in the 1940s.

• It was initially used with great effect to combat malaria, typhus, and other insect-borne human diseases among both military and civilian populations.

Additional Information

• Insecticides are chemicals used to control insects by killing them or preventing them from engaging in undesirable or destructive behaviours.

• Organic pesticides are usually considered as those pesticides that come from natural sources.

• Synthetic contact insecticides are now the primary agents of insect control.

• Inorganic insecticides are of mineral origin, mainly compounds of antimony, arsenic, barium, boron, copper, fluorine, mercury, selenium, sulfur, thallium, and zinc, and elemental phosphorus and sulfur.

**Q94. Answer: (b) Begum Akhtar**

The correct answer is Begum Akhtar.

Key Points

• The legendary Begum Akhtar was a doyen of Hindustani classical music, particularly in the ghazal genre.

• Her musical tradition was so unique that she came to be associated with her own distinct style of singing.

• She was rightly called the 'Mallika-e-Ghazal'.

• Akhtari Bai Faizabadi, also known as Begum Akhtar, was an Indian singer and actress.

• She is regarded as one of the greatest singers of ghazal, Dadra, and thumri genres of Hindustani classical music.

Additional Information

• Chitra Singh is an Indian ghazal singer.

• She, alongside her husband, Jagjit Singh, popularized the ghazal genre. Respectfully known as the "king and queen of the Ghazal world.

• Suraiya Jamal Sheikh, popularly known by the mononym Suraiya, was a popular actress and playback singer in India's Hindi-language films.

• Amrutha Suresh is an Indian singer, composer, songwriter, and radio jockey.

**Q95. Answer: (a) Kelucharan Mohapatra**

The correct answer is Kelucharan Mohapatra.

Key Points

• Kelucharan Mohapatra (8 January 1926 - 7 April 2004) was a legendary Indian classical dancer, guru, and exponent of Odissi dance, who is credited with the revival and popularizing of this classical dance form in the 20th century.

• He is the first person to receive the Padma Vibhushan from Odisha.

• A noted Sanskrit poet of India writes on this Guru: Saango-paanga-subhangi-laasya-madhuram samteerna-nrutyaarnavam,

which translates as - "Each fraction of his dancing body leads to paramount sweetness, through miraculous poses and postures. In fact, Guru Kelucharan Mohapatra crossed the ocean of styles.

Additional Information

• Sujata Mohapatra is an Indian classical dancer and teacher of the Odissi dancing style.

• Guru Ramani Ranjan Jena had his initial training in dance and music at the age of 11 from a local teacher.

• Guru Sudhakar Sahoo is 86 and still dances on stage. The oldest Odissi performer in the world today, he also regularly travels across Odisha and even far-off cities like Ahmedabad and New Delhi to teach dance.

**Q96. Answer: (c) Amoeba**

The correct answer is Amoeba.

Key Points

• In Amoeba, the cell membrane help in engulfing the food during the process called endocytosis.

• Amoeba is a unicellular organism that has the ability to change its shape.

• They are usually found in water bodies such as ponds, lakes, and slow-moving rivers.

• Sometimes, these unicellular organisms can also make their way inside the human body and cause various illnesses.

• Amoebae do not form a single taxonomic group; instead, they are found in every major lineage of eukaryotic organisms.

Additional Information

• Yeast is a single-cell organism, called Saccharomyces cerevisiae, which needs food, warmth, and moisture to thrive.

• Volvox is a genus of green algae containing around 20 species of freshwater algae.

• Spirogyra, (genus Spirogyra), any member of a genus of some 400 species of free-floating green algae (division Chlorophyta) found in freshwater environments around the world.

• A spirogyra is a plant because of the presence of chlorophyll which allows it to make its own food.

**Q97. Answer: (d) Padma Subrahmanyam**

The correct answer is Padma Subrahmanyam.

Key Points

• Padma Subrahmanyam (born 4 February 1943, in Madras), is an Indian classical Bharata Natyam dancer.

• She is also a research scholar, choreographer, teacher, Indologist, and author.

• She received the honours of Padma Shri in 1981 and Padma Bhushan in 2003.

• She is famous in India too abroad; several films and documentaries have been made in her honour by countries such as Japan, Australia, and Russia.

• She is famous as the developer and founder of the dance form Bharata Nrithyam.

Additional Information

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

• Mallika Sarabhai is an activist and Indian classical dancer and actress from Ahmedabad, Gujarat, India.

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

**Q98. Answer: (d) 2010**

The correct answer is 2010.

Key Points

• Mallika Sarabhai Padma Bhushan Awarded In 2010.

• Daughter of a classical dancer Mrinalini Sarabhai and renowned space scientist Vikram Sarabhai, Mallika is an accomplished Kuchipudi and Bharatanatyam dancer and performer.

• Mallika Sarabhai has been honored with several awards.

• Mallika Sarabhai (born 9 May 1954) is an activist and Indian classical dancer and actress from Ahmedabad, Gujarat, India.

Additional Information

• The Padma Vibhushan is the second-highest civilian award of the Republic of India, after the Bharat Ratna.

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

• All persons without distinction of race, occupation, position or sex are eligible for these awards.

**Q99. Answer: (c) Neeraj Chopra**

The correct answer is Neeraj Chopra.

Key Points

• Neeraj Chopra was nominated for the prestigious 'Laureus World Breakthrough of the Year award 2022 for his historic gold medal win at the Tokyo 2020 Olympics.

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

• He is the first Asian athlete to win an Olympic gold medal in the men's javelin throw.

• Neeraj Chopra fought the odds and Johannes Vetter won the men's javelin throw gold medal at the Tokyo Olympics.

Additional Information

• Maxence "Max" Parrot is a Canadian snowboarder.

• He is the reigning Olympic champion in slopestyle, winning gold at the 2022 Winter Olympics and also winning a silver in the event at the 2018 Winter Olympics.

• Sachin Ramesh Tendulkar is an Indian former international cricketer who captained the Indian national team.

• Vinesh Phogat is an Indian wrestler. She became the first Indian woman wrestler to win gold in both Commonwealth and Asian Games.

**Q100. Answer: (b) Article 22**

The correct answer is Article 22.

Key Points

• Article 22 of the Indian Constitution provides protection against such arrest and detention inserted in cases in preventive detention under Section 151 of the Criminal Procedure Code 1973.

• Preventive detention is without trial. A person can be detained only on grounds of suspicion hence the rights of a person arrested in this manner get governed by preventive detention laws.

• Preventive detention is an action taken on grounds of suspicion some wrong actions may be done by the person concerned hence a Police officer can arrest an individual without orders from a magistrate without a warrant if he gets any information of such an individual cannot commit any offence.

Additional Information

• Article 25 guarantees the freedom of conscience, the freedom to profess, practice, and propagate religion to all citizens.

• Article 23 in the Constitution Of India 1949 means Prohibition of traffic in human beings and forced labour.

• The Right against Exploitation is enshrined in Articles 23 and 24 of the Indian Constitution.

• Article 20, no person shall be convicted of any offense except for violation of the law in force at the time of the commission of the act charged as an offence, nor be subjected to a penalty greater than that which might have been inflicted under the law in force at the time of the commission of the offence.

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