# SSC CHSL Previous Paper 49 (Held On: 24 March 2018 Shift 3) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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## ENGLISH LANGUAGE

**Q1.** In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

**(a)** Annexeations
**(b)** Anexations
**(c)** Annexations
**(d)** Anexeations

**Q2.** The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

With global warming on

A-the rise, we have to do

B-save the environment

C-every bit that we can to

**(a)** ABC
**(b)** ACB
**(c)** CAB
**(d)** BAC

**Q3.** In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Great personalities (has attained) their heights by doing things differently

**(a)** have attained
**(b)** have attain
**(c)** have attaining
**(d)** no improvement

**Q4.** In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

The cost of a cylinder then (was) about Rs. 18.

**(a)** is
**(b)** are
**(c)** were
**(d)** No improvement

**Q5.** In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Showing poor taste and quality

**(a)** Savour
**(b)** Pike
**(c)** Tacky

**(d)** Exquisite

**Q6.** In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Regard something as being due to a cause

**(a)** Adventitious
**(b)** Superfluous
**(c)** Incidental
**(d)** Ascribe

**Q7.** In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

I can't think straight

**(a)** Accept that the puzzle is too difficult for you.
**(b)** Faced with a dilemma.
**(c)** Cannot think rationally due to being overwhelmed with emotion.
**(d)** Ask for advice on a difficult problem.

**Q8.** In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Every dog has its day

**(a)** The weakest will become the strongest, that is the cycle of life.
**(b)** Everyone will have good luck at some point in their lives.
**(c)** Loyalty will not go unrewarded.
**(d)** Every person has a talent, and one will discover it one day.

**Directions**

Direction 13 to 17: In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

In order to reason _____ it is not merely necessary to have a good intellect. An athlete may have the proper _____, good framework, and symmetrical muscles, but he cannot expect to cope _____ others of his kind unless he has learned to develop _____ muscles and to use them to the best advantage. And, in the same way, the man who wishes to reason correctly must develop his intellectual faculties and must also learn the art _____ using them to the best advantage.

**Q9.** learn the art _____ using them to the

**(a)** for
**(b)** of
**(c)** from
**(d)** off

**Q10.** to develop _____ muscles

**(a)** this
**(b)** that
**(c)** them
**(d)** those

**Q11.** expect to cope _____ others of his kind

**(a)** by
**(b)** with
**(c)** thus
**(d)** so

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**Q12.** have the proper _____, good framework

**(a)** proportional
**(b)** proportionally
**(c)** proportioned
**(d)** proportions

**Q13.** In order to reason _____ it is not merely.

**(a)** correct
**(b)** correction
**(c)** correctness
**(d)** correctly

**Q14.** In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

**(a)** Exipberamce
**(b)** Exuberance
**(c)** Axuberence
**(d)** Exubereance

**Q15.** A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

Mr. Pattinson said, “I brought a chocolate for you.”

**(a)** Mr. Pattinson brought a chocolate for me.
**(b)** Mr. Pattinson said that he had brought a chocolate for me.
**(c)** A chocolate was brought by Mr. Pattinson for me.
**(d)** Mr. Pattinson said he brought a chocolate for me.

**Q16.** A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

Someone has collected the papers.

**(a)** The papers have been collected by someone.
**(b)** The papers are collected by someone.
**(c)** The papers are being collected.
**(d)** The papers is collected by someone.

**Q17.** Rearrange the parts of the sentence in correct order.

Pablo Picasso

P : showed his truly

Q : a very young age

R : exceptional talent from

**(a)** RQP
**(b)** PQR
**(c)** PRQ
**(d)** RPQ

**Q18.** In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Inquisitive

**(a)** Examine
**(b)** Interrogate
**(c)** Dig
**(d)** Ignore

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**Q19.** In the following question, out of the given four alternatives, select the one which is opposite in the meaning of the given word.

Squall

**(a)** Wind
**(b)** Scream
**(c)** Cry
**(d)** Peace

**Q20.** In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Fledgling

**(a)** Wild
**(b)** Apprentice
**(c)** Fugitive
**(d)** Ancient

**Q21.** In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Munificent

**(a)** Stingy
**(b)** Generous
**(c)** Careful
**(d)** Sparse

**Q22.** In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

This is _____ worse than I thought it would be.

**(a)** far
**(b)** about
**(c)** more
**(d)** the

**Q23.** In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

They _____ the storm approaching.

**(a)** seen
**(b)** looked
**(c)** admired
**(d)** saw

**Q24.** In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

The rotational period and the seasoned cycles of Mars are (1)/ similar to those of the Earth, as (2)/is the tilt that produces the seasons. (3)/No error (4)

**(a)** 1
**(b)** 2
**(c)** 3
**(d)** 4

**Q25.** In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Writing therapy posit that writing about one's (1)/feelings gradually eases the impact (2)/of emotional trauma. (3)/No error (4)

**(a)** 1

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**(b)** 2
**(c)** 3
**(d)** 4

## GENERAL INTELLIGENCE

**Q26.** In the following question, select the related word pair from the given alternatives.

Balance : Mass ? ? : ?

**(a)** Speed : Odometer
**(b)** Second : Time
**(c)** Thermometer : Temperature
**(d)** Ammeter : Wind

**Q27.** In the following question, select the related number from the given alternatives.

54 : 135 ? 32 : ?

**(a)** 90
**(b)** 80
**(c)** 65
**(d)** 74

**Q28.** In the following question, select the related letter/letters from the given alternatives.

RTK : NPG ? XSP : ?

**(a)** TPM
**(b)** SOM
**(c)** SPL
**(d)** TOL

**Q29.** In the following question, select the odd word pair from the given alternatives.

**(a)** Ant-Insect
**(b)** Sketch pen-Stationery
**(c)** Parrot-Bird
**(d)** Laptop-Computer

**Q30.** In the following question, four number pairs are given. The number on left side of (-) is related to the number on the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given options.

**(a)** 12 - 8
**(b)** 28 - 24
**(c)** 66 - 62
**(d)** 84 - 76

**Q31.** In the following question, select the odd letter/letters from the given alternatives.

**(a)** RNJ
**(b)** TPL
**(c)** AWS
**(d)** EBX

**Q32.** From the given alternatives, according to a dictionary, which word would come at the FIRST position?

1. Packing
2. Panda
3. Painless
4. Pacts
5. Panic

**(a)** 1

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**(b)** 2
**(c)** 3
**(d)** 4

**Q33.** In the following question, select the missing number from the given series.

60, -52, 44, -36, 28, ?

**(a)** -18
**(b)** -12
**(c)** -24
**(d)** -20

**Q34.** A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

L, P, T, ?, B, F, ?

**(a)** X, J
**(b)** Y, K
**(c)** W, I
**(d)** Y, J

**Q35.** Ankit walks 17 km towards east. He turns left and walks 17 km. He turns left again and walks 24 km to reach point A. What is the straight line distance (in km) between the starting point and point A?

**(a)** 13√2
**(b)** 14√4
**(c)** 4√2
**(d)** 11√2

**Q36.** From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

Surprising

**(a)** Ring
**(b)** Spring
**(c)** Nothing
**(d)** Sun

**Q37.** In a certain code language, “MAID” is written as “13194” and “TEAR” is written as “205118”. How is “OHMS” written in that code language?

**(a)** 198135
**(b)** 6191312
**(c)** 1213195
**(d)** 1581319

**Q38.** In a certain code language, ‘×’ represents ‘+’, ‘÷’ represents ‘×’, ‘-’ represents ‘÷’ and ‘+’ represents ‘-’. Find out the answer to the following question.

16 - 2 + 35 × 20 ÷ 2 = ?

**(a)** 13
**(b)** 29
**(c)** 11
**(d)** 32

**Q39.** The following equation is incorrect. Which two signs should be interchanged to correct the equation?

14 - 6 × 30 ÷ 10 + 4 = 28

**(a)** • and +
**(b)** ÷ and ×
**(c)** × and -
**(d)** ÷ and -

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**Q40.** If 8&4 = 64, 5&8 = 80 and 8&1 = 16, then find the value of 9&9 =?

**(a)** 124
**(b)** 40
**(c)** 162
**(d)** 28

**Q41.** Which of the following terms follows the trend of the given list?

XYXXXXXY, XXYXXXXY, XXXYXXXY, XXXXYXXY, XXXXXYXY, _____.

**(a)** YXXXXXXY
**(b)** XYXXXXXY
**(c)** XXXXXXYY
**(d)** XXYXXXXY

**Q42.** Two horse drawn wagons start from the same farm. Wagon X travels South for 4.5 km and then turns right and travels for 7.5 km. In the meanwhile, wagon Y travels 9 km North, then 3.5 km West, then 2 km North, then it turns left and travels 4 km. Where is wagon Y with respect to wagon X?

**(a)** 6.5 km North
**(b)** 15.5 km North
**(c)** 15.5 km South
**(d)** 6.5 km South

**Q43.** In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: Some papers are tabloids

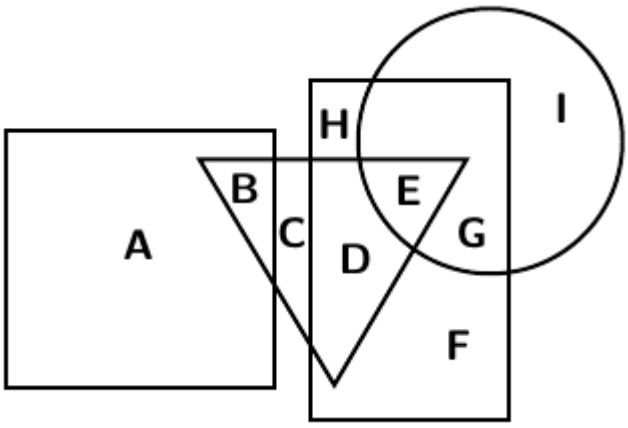
Statement II: No magazines are papers

Conclusion I: No tabloids are magazines

Conclusion II: All magazines are tabloids

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

**Q44.** In the following figure, rectangle represents Fashion designers, circle represents Equestrians, triangle represents Campers and square represents Golfers. Which set of letters represents Equestrians who are not Fashion designers?




**(a)** EG
**(b)** DEG
**(c)** I
**(d)** E

**Q45.** A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

UPY, QLU, MHQ, IDM, ?

**(a)** FYI
**(b)** EYJ
**(c)** EZI
**(d)** FZJ

**Q46.** In the following question, select the missing number from the given series.

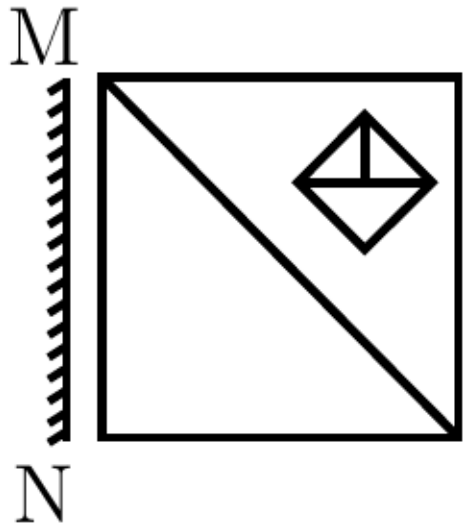
147, 153, 159, ?, 171, 177

**(a)** 161
**(b)** 164
**(c)** 168
**(d)** 165

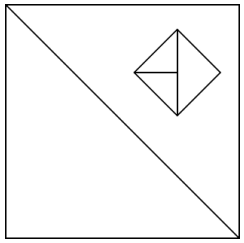
**Q47.** In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

**(a)** (12, 35, 59)
**(b)** (16, 47, 79)
**(c)** (19, 57, 94)
**(d)** (9, 26, 44)

**Q48.** If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure

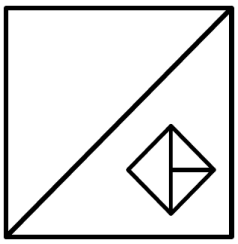



**(a)**

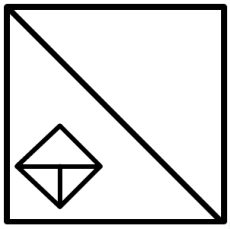


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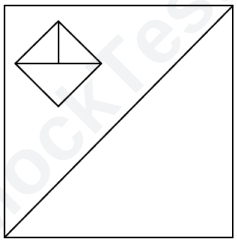
**(b)**



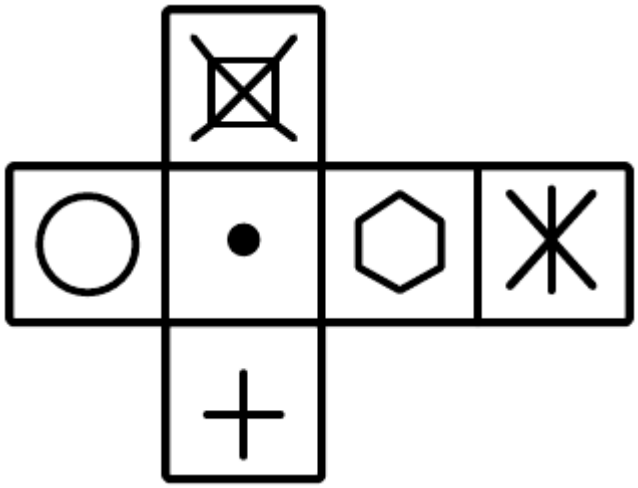
**(c)**



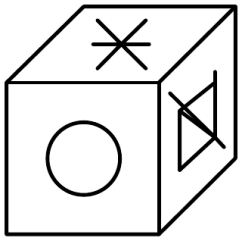
**(d)**



**Q49.** Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

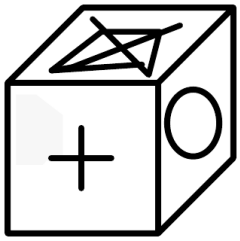


**(a)**

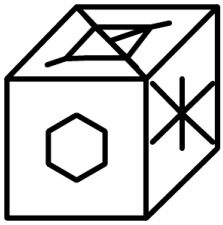


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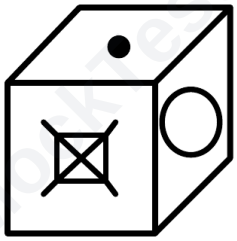
**(b)**



**(c)**



**(d)**



**Q50.** A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are resented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that a Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'K' can be represented by 23, 41, etc., and 'P' can be represented by 59, 67, etc. Similarly, you have to identify the set for the word "NAME".

| **Matrix-I** | | | | | |
|---|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | H | H | C | E | A |
| 1 | M | E | A | B | I |
| 2 | M | L | G | K | E |
| 3 | D | H | M | L | E |
| 4 | C | K | A | B | E |

| **Matrix-II** | | | | | |
|---|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | O | S | Z | O | P |
| 6 | N | W | P | X | W |
| 7 | N | S | R | Q | Q |
| 8 | O | P | N | X | V |
| 9 | V | Z | S | S | T |

**(a)** 24, 59, 30, 99
**(b)** 65, 12, 32, 24
**(c)** 10, 68, 14, 95

**(d)** 30, 85, 44, 75

## QUANTITATIVE APTITUDE

**Q51.** 1 + 1/2 + 1/4 + 1/16 + 1/32 + 1/64 is approximately equal to _____.

**(a)** 1.5
**(b)** 2
**(c)** 2.5
**(d)** 3

**Q52.** If (2x + 3y)/(3x - 4y) = 11/7, then the value of x/y is _____

**(a)** 65/19
**(b)** 68/19
**(c)** 67/19
**(d)** 64/19

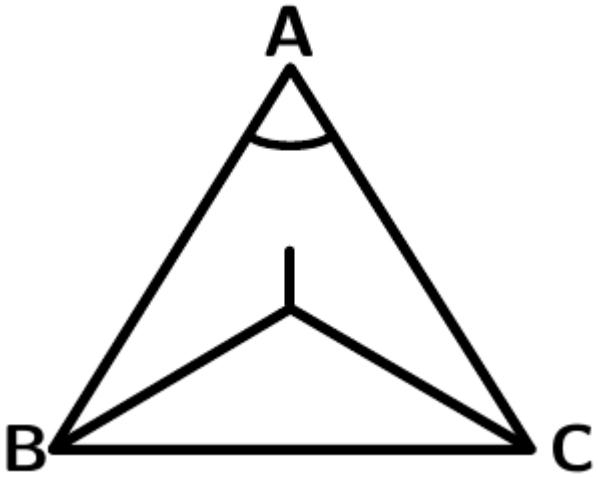
**Q53.** Find the value of $\sqrt{((2x - 5)^2)} + 2\sqrt{((x - 1)^2)}$, if $1 < x < 2$

**(a)** 1
**(b)** 2
**(c)** 3
**(d)** 4

**Q54.** The pair of equations are 7x + 8ky - 16 = 0 and 14x + 112y - 21 = 0. Find the value of 'k' for which the system is inconsistent.

**(a)** 2
**(b)** 3
**(c)** 5
**(d)** 7

**Q55.** Calculate the Angle BAC if the angle BIC = 125° and 'I' be the In-centre of the triangle.




**(a)** 50^o
**(b)** 60^o
**(c)** 70^o
**(d)** 80^o

**Q56.** The point where the triangle forms the right angle in the right-angled triangle is known as the _____.

**(a)** in-centre
**(b)** circum-centre
**(c)** centroid
**(d)** ortho-centre

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**Q57.** A has thrice as much amount as that of B and B has 40% more amount than C. If the average of the amount of all three of them is Rs. 1320, then what amount (in Rs.) A has?

**(a)** 2410
**(b)** 2520
**(c)** 2250
**(d)** 3240

**Q58.** Marks of two candidates X and Y are in the ratio of 4 : 7. If the marks of X is 140, then what will be the marks of Y?

**(a)** 210
**(b)** 180
**(c)** 245
**(d)** 225

**Q59.** In what ratio salt costing Rs. 13/kg mixed with another salt costing Rs. 7/ kg to get a mixture costing Rs 9/kg?

**(a)** 4 : 7
**(b)** 3 : 5
**(c)** 2 : 3
**(d)** 1 : 2

**Q60.** The average age of 8 members of a group is 36 years. The age of the youngest member is 32 years. If we exclude that youngest member from the group, then what will be the average age (in years) of the remaining members?

**(a)** 38.5
**(b)** 42.67
**(c)** 48.5
**(d)** 36.57

**Q61.** Rs. 10000 is kept at compound interest rate of 18% per annum (compounding annually). If the compounding of interest is done half yearly, then how much more interest (in Rs) will be obtained?

**(a)** 243
**(b)** 324
**(c)** 81
**(d)** 162

**Q62.** Rahul professes to lose 16% on selling sugar and uses a weight of 680 gm instead of 1 kg. What is the total profit percentage?

**(a)** 23.52
**(b)** 16
**(c)** 28.57
**(d)** 19.24

**Q63.** Two successive discounts of 5% and 15% are given on a table by Rakesh. If the marked price of the table is Rs. 2000, then what is the value (in Rs) of the discount offered?

**(a)** 385
**(b)** 425
**(c)** 330
**(d)** 500

**Q64.** What is the square root of $(3 - 2\sqrt{2})/ (3 + 2\sqrt{2})$?

**(a)** $3 - 2\sqrt{2}$
**(b)** $3 + 2\sqrt{2}$
**(c)** 1
**(d)** 17

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**Q65.** A certain number of men can complete a book in 10 days. If there were three more men, then book could be completed in 2 days less. How many men were there in the beginning?

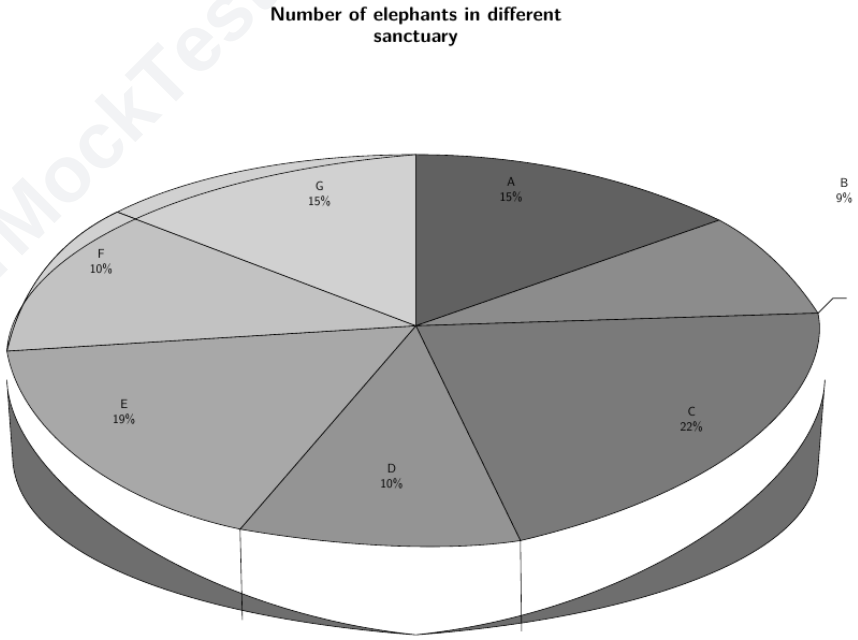
**(a)** 8
**(b)** 15
**(c)** 12
**(d)** 10

**Q66.** A boy walking at the speed of 3 km/hr covers a certain distance in 3 hours 40 minutes. If he covers the same distance by cycle in 11 hours, then what is the speed (in km/hr) of cycle?

**(a)** 1
**(b)** 2
**(c)** 4
**(d)** 3

**Directions**

Direction: The pie chart shows the number of elephants in all the elephant wild life sanctuaries in the country. Study the diagram and answer the following questions. The number of elephants in sanctuary F are 400.




**Q67.** The least number of elephants are in which sanctuary?

**(a)** C
**(b)** D
**(c)** G
**(d)** B

**Q68.** What is the total number of elephants in these sanctuaries?

**(a)** 4500
**(b)** 3000
**(c)** 4000
**(d)** 3500

**Q69.** The measure of the central angle of the sector representing the number of elephants in Sanctuary D is _____ degrees.

**(a)** 40
**(b)** 45
**(c)** 36
**(d)** 30

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**Q70.** If the average area occupied by each elephant in these sanctuaries is 50 sq. km, then what is the total area (in 1000 sq. km) of these sanctuaries?

**(a)** 200
**(b)** 150
**(c)** 100
**(d)** 300

**Q71.** The area of an equilateral triangle is $36\sqrt{3}$ cm². Find its side (in cm).

**(a)** 6
**(b)** 24
**(c)** 12
**(d)** 36

**Q72.** If the sum of the interior angles of a regular polygon is 540^o,then how many sides does it have?

**(a)** 6
**(b)** 8
**(c)** 5
**(d)** 9

**Q73.** The curved surface area and the diameter of a right circular cylinder are 132 cm² and 7 cm respectively. Find its height (in cm).

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

**Q74.** ΔXYZ is right angled at Y. If angle X = 30^o, then find the value of (cos Z + 1/3).

**(a)** $(2 + \sqrt{3})/2$
**(b)** $(2\sqrt{2} + \sqrt{3})/2$
**(c)** $1 + \sqrt{3}$
**(d)** 5/6

**Q75.** In ΔXYZ measure of angle Y is 90^o. If tan X = 15/8, and XY = 16cm, then what is the length (in cm) of side YZ?

**(a)** 34
**(b)** 30
**(c)** 15
**(d)** 14

## GENERAL AWARENESS

**Q76.** Who among the following has classified money in two types on the basis of its nature?

**(a)** John Maynard Keynes
**(b)** Adam Smith
**(c)** Karl Marx
**(d)** Milton Friedman

**Q77.** SIDO is related to the development of which of the following?

**(a)** Small industry
**(b)** Steel industry
**(c)** Software industry
**(d)** Sugar industry

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**Q78.** Bahmani ruler Tajuddin Firuz married the daughter of which of the following Vijayanagara rulers?

**(a)** Harihar II
**(b)** Devaraya I
**(c)** Devaraya II
**(d)** Krishnadevaraya

**Q79.** In whose reign, the office of the Vakil was abolished?

**(a)** Akbar
**(b)** Jahangir
**(c)** Shah Jahan
**(d)** Aurangzeb

**Q80.** Angel Falls is situated on which river?

**(a)** Amazon
**(b)** Orinoco
**(c)** Caroni
**(d)** Parana

**Q81.** The southern boundary of India's mainland is _____.

**(a)** 6^o 4 N
**(b)** 7^o 4 N
**(c)** 8^o 4 N
**(d)** 6^o 8 N

**Q82.** Jain literature is also called as _____.

**(a)** Pitaka
**(b)** Agam
**(c)** Kalpa
**(d)** Sutt

**Q83.** In a bid to boost their bilateral strategic partnership and to increase defence co-operation, India and which of the following countries held their inaugural Foreign Secretaries and Defence Secretaries dialogue in New Delhi on December 12, 2017?

**(a)** Japan
**(b)** Singapore
**(c)** Australia
**(d)** South Africa

**Q84.** In January 2018, Dr. Vinod Paul became first Indian to be awarded prestigious Ihsan Dogramaci Family Health Foundation Prize by World Health Organisation (WHO). He is a member of _____.

**(a)** NITI Aayog
**(b)** UPSC
**(c)** Lok Sabha
**(d)** Rajya Sabha

**Q85.** Nepali language is written in which script?

**(a)** Uchen
**(b)** Tirhuta
**(c)** Devanagari
**(d)** No option is correct.

**Q86.** Which of the following statements is CORRECT?

**(a)** NaCl has same equivalent weight and molecular weight.
**(b)** H2SO4 has same equivalent weight and molecular weight.
**(c)** CaCl2 has same equivalent weight and molecular weight.

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**(d)** Na2SO4 has same equivalent weight and molecular weight

**Q87.** Which of the following wave CANNOT propagate in a vacuum?

**(a)** X-rays
**(b)** Radio waves
**(c)** UV-rays
**(d)** Ultrasonic waves

**Q88.** Which among the following is NOT a level of Government in India?

I. Local-level government
II. State-level government
III. National-level government

**(a)** Only I
**(b)** Only II
**(c)** Only III
**(d)** No option is correct.

**Q89.** The idea of people's participation in the Panchayati Raj System extends to how many other levels?

**(a)** 1
**(b)** 2
**(c)** 4
**(d)** 5

**Q90.** In sexual reproduction the male gametes are generally _____.

**(a)** Only motile
**(b)** Only small
**(c)** Both motile and small
**(d)** Only food stores

**Q91.** Which tissue provides support to plants and also stores food?

**(a)** Parenchyma
**(b)** Collenchyma
**(c)** Sclerenchyma
**(d)** Aerenchyma

**Q92.** Where was the India's first 'All India Institute of Ayurveda (AIIA)' inaugurated on 'Ayurveda Day', 17^(th) October 2017?

**(a)** Mumbai
**(b)** Dehradun
**(c)** New Delhi
**(d)** Bangalore

**Q93.** Which region of India is set to get the country's first ever 'Air Dispensary'?

**(a)** Eastern Ghats
**(b)** North-Eastern states
**(c)** Coastal plains
**(d)** Jammu and Kashmir

**Q94.** Which expert committee has been constituted by Reserve Bank of India to look into the issues relating to classification of bad loans, effectiveness of audits and rising incidents of frauds?

**(a)** Vinay Sheel Oberoi Committee
**(b)** N. Gopalaswami Committee
**(c)** Y. H. Malegam Committee
**(d)** N. Chandrashekhar Committee

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**Q95.** On 24 January 2018, the Ministry of Women and Child Development launched a Management Information System (MIS) portal for the _____.

**(a)** Scheme for Adolescent Girls
**(b)** Scheme for Widow women
**(c)** Scheme for Acid attack victims
**(d)** Anganwadi Services Training Programme

**Q96.** What is the heat released by a heating filament rated 24 W when it is kept on for 6 seconds?

**(a)** 4
**(b)** 144
**(c)** 72
**(d)** 8

**Q97.** When the vibrating object moves backwards, it creates a region of low pressure in the medium called _____.

**(a)** Elongation
**(b)** Perpetuation
**(c)** Gyration
**(d)** Rarefaction

**Q98.** Many marine animals use _____ dissolved in sea-water to make their shells.

**(a)** Acids
**(b)** Alkalis
**(c)** Silica
**(d)** Carbonates

**Q99.** Which of the statements given below are correct?

A) Zhansaya Abdumalik won the Chess 2017 Women's World Junior Chess Championship.
B) In 2017, Marc Marquez raced in MotoGP for Yamaha.
C) Zhu Yuling won the Tennis 2017 Wimbledon Championships Women's Singles.

**(a)** Only A
**(b)** Both A and C
**(c)** Both B and C
**(d)** No option is correct.

**Q100.** In HTML, _____ attribute is used for merging of two or more adjacent columns.

**(a)** CELLPADDING
**(b)** CELLSPACING
**(c)** ROWSPAN
**(d)** COLSPAN

## ANSWER KEY

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

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| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 91 | a | 92 | c | 93 | b | 94 | c | 95 | d | 96 | b | 97 | d | 98 | d | 99 | a | 100 | d |

## SOLUTIONS

**Q1. Answer: (c) Annexations**

The correct answer is- 'Annexations'

Additional Information

• 'Annexations' is a 'noun' and it means 'possession taken of a piece of land or a country, usually by force or without permission'

• Example: Annexations helped San Jose grow into one of the nation's biggest cities.

Here, the correct spelling is- Annexations

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

The correct answer is- 'ACB'

Key Points

• In the given sentence ‘With global warming on the rise…’ seems to be a logically correct part of a meaningful sentence. So, A can be the first part of the sequence.

• ‘we have to do…’ should follow an action. So, the next part that can follow is C and part B explains why should we do that action. So, B can complete the sentence.

• Therefore, the correct sequence is ACB, making option 2 the correct answer.

The correct sentence is- With global warming on the rise, we have to do every bit we can to save the environment.

**Q3. Answer: (a) have attained**

The correct answer is- 'have attained'

Key Points

• Using 'have attained' in place of 'has attained' to make the sentence correct.

• We know that ‘Great personalities’ is plural in nature. So, it should be followed by the plural verb 'have*',* and not by 'has'.

• The given sentence is in Present perfect tense

• Structre: Sub + has/have + V3 + object

• When we use 'have*'*, the verb that follows should be in its present perfect form (-ed form)

• Examples: I have considered this option.

The correct sentence is- Great personalities have attained their heights by doing things differently.

**Q4. Answer: (d) No improvement**

The correct sentence is- 'No improvement'

Key Points

• There is no need for improvement in the given sentence

• The use of the word 'Then' indicates that the time in question is in the past.

• So, the sentence should use was to highlight the past tense. (and not is). Also, ‘the cost of something’ is singular which cannot be followed by 'are' and 'were'.

The correct sentence is- The cost of a cylinder then was about Rs. 18.

Additional Information

• 'Then' meaning ‘at that time’.

• We can use then to mean ‘at that time’, referring either to the past or the future. In this case, it is usually at the end of the clause.

• Let's see the example:

• What age were you then?

• This time next week, I’ll be on a plane to Kiev. Where will you be then?

**Q5. Answer: (c) Tacky**

The correct answer is- 'Tacky'

Key Points

• 'Tacky' is a noun and it means 'of cheap quality or in bad style or Showing poor taste and quality'

• Example: The shop sold tacky souvenirs and ornaments.

Hence option 3 is the most appropriate answer here.

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• Let's find out the meaning of the other options:

| WORDS | MEANING |
|---|---|
| Savour*(verb)* | taste (good food or drink) and enjoy it completely. |
| Pike*(noun)* | an infantry weapon with a pointed steel or iron head on a long wooden shaft. |
| Exquisite*(adjective)* | extremely beautiful and, typically, delicate. |

**Q6. Answer: (d) Ascribe**

The correct answer is- 'Ascribe'

Key Points

• The word 'Ascribe' is a verb and it means 'to consider something to be caused, created, or owned by someone or something.'

• Example: People like to ascribe human feelings to animals (= believe animals have human feelings).

Hence option 3 is the most appropriate answer here.

• Let's find out the meaning of the other options:

| WORDS | MEANING |
|---|---|
| Adventitious(adjective) | happening or carried on according to chance rather than design or inherent nature. |
| Superfluous(adjective) | unnecessary, especially through being more than enough. |
| Incidental(adjective) | accompanying but not a major part of something. |

**Q7. Answer: (c) Cannot think rationally due to being overwhelmed with emotion.**

The correct answer is- 'Cannot think rationally due to being overwhelmed with emotion.'

Key Points

• 'I can't think straight' is an idiom and it means 'to be unable to consider things carefully or correctly.'

• Example: I was so tired, I couldn't think straight.

Hence the option 3 gives the correct meaning of the idiom I can't think straight.

**Q8. Answer: (b) Everyone will have good luck at some point in their lives.**

The correct answer is- 'Everyone will have good luck at some point in their lives'

Key Points

• 'Every dog has its day' is an idiom and it means 'said to emphasize that everyone is successful or happy at some time in their life.'

• Example: I know you're shocked that that dopey kid got a better grade than you, but hey, every dog has its day.

Hence the option 2 gives the correct meaning of the idiom every dog has its day.

**Q9. Answer: (b) of**

The correct answer is- 'of'

Key Points

• Using 'of' in the blank space to make the sentence meaningful.

• An appropriate preposition to be used here is 'of'.

| USES | EXAMPLES |
|---|---|
| to indicate relating to, belonging to | I always dreamed of being famous. |
| to indicate reference | This is a picture of my last birthday. |
| to specify the number or an amount | A good number of people understand Hindi. |

Therefore, option 2 is the most appropriate answer here.

Additional Information

• One should note that 'of' indicates belonging or relationship between different words (The order of the Phoenix, The faith of your people, etc.)

• Whereas 'off' shows separation or disconnection (She ran off with the cash – to move/run away suddenly).

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**Q10. Answer: (d) those**

The correct answer is- 'those'

Key Points

• Using 'those' in the blank space to make the sentence meaningful.

• ‘muscles’ have been mentioned in the preceding part of the sentence. So, we can use 'these' or 'those' as muscles are plural.

• ‘These’ is used to refer to objects nearer to the speaker and ‘Those’ is used for objects far from the speaker.

• Clearly, we are talking about the muscles of an athlete (and not of the speaker). So, 'Those' will be the proper fit. (… to develop those muscles…)

Therefore, option 4 is the most appropriate answer here.

**Q11. Answer: (b) with**

The correct answer is- 'with'

Key Points

• Using 'with' in the blank space to make the sentence meaningful.

• The correct phrase to be used here is ‘to cope with’ and it means 'to deal effectively with an unpleasant or a difficult situation.'

• Example: The economy could not cope with war.

The correct sentence is- expect to cope with others of his kind

**Q12. Answer: (d) proportions**

The correct answer is- 'proportions'

Key Points

• The word ‘Proportions’ is a noun and it means 'a part, share, or number considered in comparative relation to a whole.'

• Example: Children make up a large proportion of the world's population.

• Here refers to size and dimensions. An athlete may have the proper proportions (size)…seems a logical sentence.

Therefore, option 4 is the most appropriate answer here.

**Q13. Answer: (d) correctly**

The correct answer is- 'correctly'

Key Points

• Using 'correctly' in the blank space to make the sentence correct.

• We know that Adverbs describe 'how, when, or where' an action takes place. These are describing words of verbs. They often end with '–ly'.

• Example: Rahul sings loudly. (Here, 'loudly' describes how he sings. So, 'loudly' is an adverb.)

• Similarly, in the question, we need an adverb that will describe the verb ‘reason’.

• 'Correctly' seems an appropriate choice. (In order to reason correctly…)

The correct sentence is- In order to reason correctly it is not merely.

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

The correct answer is- 'Exuberance'

Key Points

• The words 'Exuberance' is a noun and it means 'the quality of feeling energetic or the behaviour of someone who feels this way.'

• Example: He maintained a youthful exuberance.

Here, the correct spelling is- Exuberance

**Q15. Answer: (b) Mr. Pattinson said that he had brought a chocolate for me.**

The correct answer is- 'Mr. Pattinson said that he had brought a chocolate for me.'

Key Points

• In Direct speech, the actual words of the speaker are quoted within quotation marks and in Indirect speech, we report someone else’s statement in our own words.

• When we change the speech from Direct to Indirect, we drop the quotation marks and use the conjunction 'that' before the Indirect statement. We make suitable changes in tenses as well.

• A simple present becomes a simple past

• Eats --to-- ate

• A present continuous becomes a past continuous

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• Is eating --to--was eating

• A present perfect becomes a past perfect

• Has eaten --to-- had eaten

• A simple past becomes a past perfect

• Ate--to-- had eaten

• Also, 'am' changes to 'was', 'now*'* changes to 'then*'*, 'tomorrow' changes to 'the next day' etc.

• After following the above rules:

So, keeping these points in mind, the sentence in the question, when changed from Direct to Indirect speech, becomes- Mr. Pattinson said that he had brought a chocolate for me.

**Q16. Answer: (a) The papers have been collected by someone.**

The correct answer is- 'The papers have been collected by someone.'

Key Points

• In the given question the sentence 'Someone has collected the papers.' is in 'Active voice' which is in the present perfect and we know that after converted this sentence into 'Passive voice' the tense will same which also should in the present perfect.

• Present Perfect:

• Sub + has/have + V3 + object (Active)

• Object + has/have + been + V3 + by + subject (Passive)

• Let's see some example:

• Reema has cleaned the floor (Active)

• The floor has been cleaned by Reema (Passive)

Hence the correct answer is- The papers have been collected by someone.

**Q17. Answer: (c) PRQ**

The correct sentence is- 'PRQ'

Key Points

• In the first sentence, the sequence is the one that will logically follow ‘Pablo Picasso’. Looking at the sentences given, sentence P can follow to mean ‘Pablo Picasso showed his truly…’ This seems fine as a verb follows a noun.

• The question that arises now is he showed what? Sentence R answers that question so it should follow next with sentence Q as the end of the sentence.

• Therefore, the correct sequence is PRQ, making option 3 the correct answer.

The correct sentence is- Pablo Picasso showed his truly exceptional talent from a very young age.

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

The correct answer is- 'Ignore'

Key Points

• 'Inquisitive' is an adjective and it means 'wanting to discover as much as you can about things, sometimes in a way that annoys people' and the opposite word of 'Inquisitive' is 'Ignore'.

• Example: She could see inquisitive faces looking out from the windows next door.

Hence the correct opposite word is Ignore.

• Let's see the other options:

| WORDS | MEANING |
|---|---|
| Examine | inspect (someone or something) in detail to determine their nature or condition; investigate thoroughly. |
| Interrogate | ask questions of (someone, especially a suspect or a prisoner) closely, aggressively, or formally. |
| Dig | break up and move earth with a tool or machine, or with hands, paws, snout, etc |

**Q19. Answer: (d) Peace**

The correct answer is- 'Peace'

Key Points

• 'Squall' is a noun and it means 'a sudden strong wind or short storm' and the opposite word of 'Squall' is 'Peace'.

• Example: Violent squalls signalled the approach of the hurricane.

Hence the correct opposite word is Peace.

| WORDS | MEANING |
|---|---|
| Wind*(noun)* | the perceptible natural movement of the air. |
| Scream*(verb)* | give a long, loud, piercing cry or cries expressing excitement, great emotion, or pain. |
| Cry*(verb)* | shed tears, typically as an expression of distress, pain, or sorrow. |

**Q20. Answer: (b) Apprentice**

The correct answer is- 'Apprentice'

Key Points

• 'Fledgling' is a noun and it means 'a young bird that has grown feathers and is learning to fly' so that the similar word of 'Fledgling' is 'Apprentice'.

• Example: Emily, a young and enthusiastic birdwatcher, spotted a fledgling robin perched on a low branch, still learning to fly.

• The word "apprentice" refers to a person who is learning a trade or profession under the guidance and supervision of a skilled practitioner. An apprentice typically undergoes a period of practical training and learning in order to acquire the necessary skills and knowledge for the chosen occupation.

• Example sentence: "Sarah decided to become an apprentice at a renowned bakery to learn the art of pastry-making from a master baker."

• Hence the correct similar word is Apprentice.

| WORDS | MEANING |
|---|---|
| Wild(adjective) | (of an animal or plant) living or growing in the natural environment; not domesticated or cultivated. |
| Fugitive(noun) | a person who has escaped from a place or is in hiding, especially to avoid arrest or persecution. |
| Ancient(adjective) | belonging to the very distant past and no longer in existence. |

**Q21. Answer: (b) Generous**

The correct answer is- 'Generous'

Key Points

• 'Munificent' is an adjective and it means 'very generous with money' so that the similar word of 'Munificent' is 'Generous'.

• Example: A former student has donated a munificent sum of money to the college.

Hence the correct similar word is Generous.

| WORDS | MEANING |
|---|---|
| Stingy*(adjective)* | unwilling to give or spend; ungenerous. |
| Careful*(adjective)* | making sure of avoiding potential danger, mishap, or harm; cautious. |
| Sparse*(adjective)* | thinly dispersed or scattered. |

**Q22. Answer: (a) far**

The correct answer is- 'far'

Key Points

• Using 'far' in the blank space to make the sentence meaningful.

• The word ‘worse’ is already in its comparative form. (worse is loosely equivalent to 'more bad')

• If we use more in the blank, it will mean this is more (more bad) worse than I thought it would be.

• So, This is not grammatically correct. So, option 3 is incorrect.

• In order to emphasize the extent or amount (of how much something is worse in this case), one can use the word 'far'.

• Example: He is performing far better than his usual.

• Therefore, the correct answer is option 1 as it fits into the sentence logically.

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The correct sentence is- This is far worse than I thought it would be.

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

The correct answer is- 'saw'

Key Points

• Using 'saw' in the blank space to make the sentence meaningful.

• The context tells us that the people could see the storm coming.

• Let us understand the difference in the usage of the words ‘looked’ and ‘seen’.

• Looked: When we look, we make a special effort – we try to see by paying attention.

• Example: I am looking for my book but I cannot find them.

• Seen: When we see something, we notice it. We did not try to see, but that something came to our notice.

• Example: I can see him waving at me.

• So, in the given context, ‘They looked the storm approaching’ will sound illogical.

• In the logical sense, we can eliminate option 3 because no one will admire (or praise) the storm approaching.

• 'seen' is the V3 form of verb which can be used after be verbs (was, have, has, etc). As there is no helping verb before the blank, 'seen' is an incorrect option.

The correct sentence is- They saw the storm approaching.

**Q24. Answer: (a) 1**

The correct answer is- 'error lies in the part-1'

Key Points

• The word 'seasoned' should be replaced with the word 'seasonal'.

• Let us understand the difference in their meanings.

• Seasonal: happening during a particular period in the year

• Example: Seasonal fruits are cheaper to buy.

• Seasoned: to improve the flavor of food by adding salt, herbs, or spices

• Example: We were tempted to eat the perfectly seasoned chicken

• Here, we are referring to the seasonal cycles of the planet Mars.

The correct sentence is- The rotational period and the seasonal cycles of Mars are similar to those of the Earth, as is the tilt that produces the seasons.

**Q25. Answer: (a) 1**

The correct answer is- 'error lies in the part-1'

Key Points

• Using 'Posits' in the place of 'Posit' to make the sentence correct.

• We know that 'Writing therapy' is a singular subject and it will be followed by the singular verb. The given sentence in the present indefinite.

• Structure of the present indefinite:

• Sub + V1 + s/es + object (positive)

• Sub + do/does + not + V1 + object (negative)

• Example: Ram goes to market.

The correct sentence is- Writing therapy posits that writing about one's feelings gradually eases the impact of emotional trauma.

Additional Information

• The word 'Posit' means 'to suggest something as a fact or a basis for an argument or calculation'.

• Example: If we posit that wage rises cause inflation, it follows that we should try to minimize them.

**Q26. Answer: (c) Thermometer : Temperature**

‘Balance’ is used to measure ‘Mass’,

Similarly, ‘Thermometer’ is used to measure ‘Temperature’.

Hence, Thermometer : Temperature is the correct answer.

**Q27. Answer: (b) 80**

The logic followed here is:-

(1/2 × first term) × 5 = Second term

In 54 : 135
(1/2 × 54) × 5 → 27 × 5 = 135
Similarly,
In 32 : 80
(1/2 × 32) × 5 → 16 × 5 = 80
Hence, the correct answer is "80".

**Q28. Answer: (d) TOL**

The logic followed here is:
Similarly,
Hence, answer is 'TOL'.

**Q29. Answer: (d) Laptop-Computer**

The pattern followed here is:-
1) Ant-Insect → Ant is an insect.
2) Sketch pen-Stationery → Sketch pen is an item of stationery.
3) Parrot-Bird → Parrot is a bird.
4) Laptop-Computer → Laptop and computer do not follow any such relation.
As can be seen clearly from the above, Laptop-Computer is the odd word pair.
Hence, the correct answer is "Laptop-Computer".

**Q30. Answer: (d) 84 - 76**

Here the pattern of relation followed is Number - (Number - 4)
12 - 4 = 8
28 - 4 = 24
66 - 4 = 62
84 - 4 ≠ 76
Clearly, '84 - 76' doesn't follows the above pattern.
Hence, '84 - 76' is the odd one out.

**Q31. Answer: (d) EBX**

The pattern followed here is:-
1) RNJ
2) TPL
3) AWS
4) EBX
As can be seen clearly from above that EBX doesn't follow the pattern.
Hence, the correct answer is "EBX".

**Q32. Answer: (a) 1**

The correct order of the given word as they would appear in an English dictionary is as shown below:-
1. Packing
4. Pacts
3. Painless
2. Panda
5. Panic
As can be seen clearly from above that the word Packing would come at the FIRST position.
Hence, the correct answer is "Packing".

**Q33. Answer: (d) -20**

The logic followed here is,
→ 8 has been subtracted from each term to get the next term of the series.
→ (+) and (-) signs are used alternately with the terms.
Hence, the correct answer is " -20 ".

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**Q34. Answer: (a) X, J**

The pattern followed here is:-

Hence the correct answer is "X, J".

**Q35. Answer: (a) 13√2**

According to the given information,

1) Ankit walks 17 km towards east.

2) He turns left and walks 17 km.

3) He turns left again and walks 24 km to reach point A.

Straight line distance (in km) between the starting point and point A = $\sqrt{(17^2 + 7^2)}$ km

→ $13\sqrt{2}$ km

Hence, the correct answer is ' $13\sqrt{2}$ km'.

**Q36. Answer: (c) Nothing**

Let's check each option,

1) RING: SURPRISING → Can be formed.

2) SPRING: SURPRISING: → Can be formed.

3) NOTHING: SURPRISING → Cannot be formed as there is no 'O', 'T', 'H' and two 'N' in it.

4) SUN: SURPRISING → Can be formed.

Hence, the correct answer is " Nothing ".

**Q37. Answer: (d) 1581319**

The logic followed here is:

→ Alphabets are represented by their respective place values.

MAID:

TEAR:

Similarly,

OHMS:

Hence, the correct answer is " 1581319 ".

**Q38. Answer: (a) 13**

| **Symbol** | • | • | × | ÷ |
|---|---|---|---|---|
| Meaning | ÷ | • | • | × |

Given equation: 16 - 2 + 35 × 20 ÷ 2 =?

On replacing the symbol:

16 ÷ 2 - 35 + 20 × 2

→ 8 - 35 + 40

→ 8 + 5

→ 13

Hence, the correct answer is " 13 ".

**Q39. Answer: (a) • and +**

Let's check each option,

1) - and +

→ 14 + 6 × 30 ÷ 10 - 4 = 28

→ 14 + 6 × 3 - 4 = 28

→ 14 + 18 - 4 = 28

→ 32 - 4 = 28

→ 28 = 28

→ LHS = RHS.

2) ÷ and ×

→ 14 - 6 ÷ 30 × 10 + 4 = 28.

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→ 14 - 2 + 4 = 28.

→ 16 ≠ 28.

→ LHS ≠ RHS.

3) × and -

→ 14 × 6 - 30 ÷ 10 + 4 = 28.

→ 14 × 6 - 3 + 4 = 28.

→ 84 - 3 + 4 = 28.

→ 85 ≠ 28.

→ LHS ≠ RHS.

4) ÷ and -

→ 14 ÷ 6 × 30 - 10 + 4 = 28.

→ 70 - 10 + 4 = 28.

→ 64 ≠ 28.

→ LHS ≠ RHS.

Here, we can see that only Option 1 satisfy the equation.

Hence, the correct answer is " - and + ".

**Q40. Answer: (c) 162**

The logic/rule followed here is:

8&4 = 64 → (8 × 4) × 2 = 64

5&8 = 80 → (5 × 8) × 2 = 80

8&1 = 16 → (8 × 1) × 2 = 16

Similarly,

9&9 =? → (9 × 9) × 2 = 162.

Hence, the correct answer is " 162 ".

**Q41. Answer: (c) XXXXXXYY**

The logic followed here,

→ Y on the left side is moving one place to its right.

| X | Y | X | X | X | X | X | Y |
|---|---|---|---|---|---|---|---|
| X | X | Y | X | X | X | X | Y |
| X | X | X | Y | X | X | X | Y |
| X | X | X | X | Y | X | X | Y |
| X | X | X | X | X | Y | X | Y |
| X | X | X | X | X | X | Y | Y |

Hence, the correct answer is " XXXXXXYY ".

**Q42. Answer: (b) 15.5 km North**

As per the given information,

1) Wagon X travels south for 4.5 km.

2) Then turns right and travels for 7.5 km.

3) Wagon Y travels 9 km North.

4) Then 3.5 km west.

5) Then 2 km North, then it turns left and travels 4 km.

Now, combining the distance and turns of both wagons X and Y, we get:

Here, we can see that Y is 15.5 km to the North of X.

Hence, the correct answer is " 15.5 km North ".

**Q43. Answer: (d) Neither conclusion I nor conclusion II follows**

Conclusion I: No tabloids are magazines → False (As, some papers are tabloids and No magazines are papers; It is possible but not definite)

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Conclusion II: All magazines are tabloids → False (As, some papers are tabloids and No magazines are papers; It is possible but not definite)

Hence, the correct answer is " Neither conclusion I nor conclusion II follows ".

**Q44. Answer: (c) I**

Set of letters represents Equestrians who are not Fashion designers = Set of letters represents Equestrians - common part of Equestrians and Fashion designers = (I + E + G) - (E + G) = I

Hence, the correct answer is " I ".

**Q45. Answer: (c) EZI**

The pattern/logic followed here is:

Hence, the correct answer is " EZI ".

**Q46. Answer: (d) 165**

The logic followed here is:

→ 6 is added to each term to get the next term of the series.

Hence, the correct answer is " 165 ".

**Q47. Answer: (c) (19, 57, 94)**

The logic/rule/relation followed here is:

Second Number = (First Number × 3) - 1.

Third Number = (First Number × 5) - 1.

Let's check each option,

1) (12, 35, 59) → [12, (12 × 3) - 1, (12 × 5) - 1]

2) (16, 47, 79) → [16, (16 × 3) - 1, (16 × 5) - 1]

3) (19, 57, 94) → [19, (19 × 3), (19 × 5) - 1]

4) (9, 26, 44) → [9, (9 × 3) - 1, (9 × 5) - 1]

Here, we can see that Option 3 doesn't follow the logic.

Hence, the correct answer is " (19, 57, 94) ".

**Q48. Answer: (d) [figure]**

Hence, the correct answer is " Option 4 ".

**Q49. Answer: (b) [figure]**

When the unfolded cube is folded, the pair of opposite sides are,

<=>

<=>

<=>

Let's check each option,

1)

→ Can be made.

2)

→ Cannot be made as

and

should be opposite sides.

3)

→ Can be made.

4)

→ Can be made.

Here, we can see that only cube in Option 2 cannot be made.

Hence, the correct answer is " Option 2 ".

**Q50. Answer: (b) 65, 12, 32, 24**

Let's check each option,

1) 24, 59, 30, 99 → E, P, D, T

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2) 65, 12, 32, 24 → N, A, M, E

3) 10, 68, 14, 95 → M, X, I, V

4) 30, 85, 44, 75 → D, O, E, N

Hence, the correct answer is " 65, 12, 32, 24 ".

**Q51. Answer: (b) 2**

1 + 1/2 + 1/4 + 1/16 + 1/32 + 1/64

= 1 + (32 + 16 + 4 + 2 + 1)/64

= 1 + 55/64

≈ 1 + 1 = 2

**Q52. Answer: (a) 65/19**

Calculation:

=> (2x + 3y)/(3x - 4y) = 11/7

=> 14x + 21y = 33x - 44y

=> 65y = 19x

=> x/y = 65/19

Therefore The correct answer is 65/19.

**Q53. Answer: (c) 3**

Shortcut Trick

Pick a value of x within the given range $1 < x < 2$, for example, $x = 1.5$.

Substitute $x = 1.5$ into the expression: $\sqrt{((2 \times 1.5 - 5)^2)} + 2\sqrt{((1.5 - 1)^2)}$

=> $\sqrt{((3 - 5)^2)} + 2\sqrt{((0.5)^2)}$

=> $\sqrt{(-2)^2} + 2(0.5) = 2 + 1 = 3$.

Therefore The correct answer is 3.

Alternate Method

Given: The range of x is $1 < x < 2$.

Formula Used: $\sqrt{a^2} = |a|$ (the principal square root is always non-negative).

=> $\sqrt{((2x - 5)^2)} + 2\sqrt{((x - 1)^2)} = |2x - 5| + 2|x - 1|$

=> Since $x < 2$, $2x < 4$, so $(2x - 5) < 0$. Therefore $|2x - 5| = -(2x - 5) = 5 - 2x$.

=> Since $x > 1$, $(x - 1) > 0$. Therefore $|x - 1| = x - 1$.

=> Expression = $(5 - 2x) + 2(x - 1)$

=> $5 - 2x + 2x - 2$

=> $5 - 2 = 3$.

Therefore The correct answer is 3.

Additional Information

Modulus Property of Square Roots

The relation $\sqrt{x^2} = |x|$ is a fundamental identity. It ensures that the result of a square root is never negative, regardless of the sign of the variable x.

Definition of Absolute Value

$|a| = a$ if $a \geq 0$ and $|a| = -a$ if $a < 0$. In interval-based problems, identifying the sign of the inner expression is key to removing the modulus.

Linear Inequalities

When multiplying an inequality by a positive number, the sign remains the same. For $1 < x < 2$, multiplying by 2 gives $2 < 2x < 4$.

**Q54. Answer: (d) 7**

Concept used:

For system of linear equation in 2 variable i.e., $a1x + b1y + c1 = 0$ and $a2x + b2y + c2 = 0$ to be inconsistent:

=> $a1/a2 = b1/b2 \neq c1/c2$

Calculation:

For the system $7x + 8ky - 16 = 0$ and $14x + 112y - 21 = 0$ to be inconsistent

Here $a1 = 7$; $a2 = 14$; $b1 = 8k$; $b2 = 112$; $c1 = -16$; $c2 = -21$

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=> a1/a2 = b1/b2 ≠ c1/c2
=> b1/b2 = a1/a2
=> 8k/112 = 7/14
=> k = (7 × 112)/(14 × 8)
=> k = 7
Therefore The correct answer is 7.

**Q55. Answer: (c) 70^o**

Given:
angle BIC = 125°
'I' is the incenter of the Δ ABC
Concept used:
If 'I' is the incenter, then
angle BIC = 90° + (1/2) × angle BAC
Calculation:
In ΔABC,
angle BIC = 90° + (1/2)angle BAC
125° = 90° + (1/2)angle BAC
angle BAC = 70°
Therefore The correct answer is 70°.
Alternate MethodCalculation:
As, Incentre of the triangle is the point of intersection of triangle's three angle bisectors so,
angle IBC = angle IBA
angle ICB = angle ICA
In the triangle BIC, by angle sum property
=> angle IBC + angle ICB + angle BIC = 180°
=> angle IBC + angle ICB + 125° = 180°
=> angle IBC + angle ICB = 55°
=> 2(angle IBC + angle ICB) = 2 × 55°
=> 2angle IBC + 2angle ICB = 110°
=> angle ABC + angle ACB = 110°
Now, by angle sum property in triangle ABC
angle BAC = 180° - (angle ABC + angle ACB) = 180° - 110° = 70°
Therefore The correct answer is 70°.

**Q56. Answer: (d) ortho-centre**

Calculation:
The point where the triangle forms the right angle in the right-angled triangle is known as the ortho center.
Therefore Option 4 is the correct answer.

**Q57. Answer: (b) 2520**

Given:
A has thrice as much amount as that of B.
B has 40% more amount than C.
The average amount of all three of them is Rs. 1320.
Concept used:
Average = (sum of all observations)/(total number of observations)
Calculation:
Let the amount with C be Rs. a
Amount with B = a + 40% of a = 1.4a
Amount with A = 3 × 1.4a = 4.2a
By using the above concept,
Average = (4.2a + 1.4a + a)/3

=> 1320 = 6.6a/3 (Because average = 1320 given)
=> a = 600
=> A = Amount with A = 4.2 × 600 = Rs. 2520
Therefore The ammount of A is Rs. 2520.
Alternate MethodCalculation:
According to the question:
A : B = (3 : 1) × 7 = 21 : 7
B : C = (7 : 5)
So, A : B : C = 21 : 7 : 5
Now, (21 + 7 + 5)/3 = Average of (A, B and C)
33 units = 1320 × 3
1 unit = Rs.120
Amount of A = 21 × 120 = Rs.2520
Therefore The correct answer is Rs.2520.

**Q58. Answer: (c) 245**

Given:
Ratio of marks of two candidates = 4 : 7
Calculation:
Let the marks of the candidate = 4x, and 7x
So 4x = 140
=> x = 140/4
=> 7x = (140/4) × 7 = 245
Therefore The correct answer is 245.

**Q59. Answer: (d) 1 : 2**

Calculation:
Let x kg of salt costing Rs.13/kg is mixed with y kg of salt costing Rs.7/kg then
=> 13x + 7y = 9(x + y)
=> 13x + 7y = 9x + 9y
=> 4x = 2y
=> x/y = 2/4 = 1/2
Therefore Required Ratio = 1 : 2
Shortcut TrickCalculation:
So the required ratio = 2 : 4 = 1 : 2
Therefore The correct answer is 1 : 2.

**Q60. Answer: (d) 36.57**

Calculation:
Sum of age of 8 members = Average Age of 8 members × 8
Sum of age of 8 members = 36 × 8
Sum of age of 8 members = 288
Now, if we exclude the youngest member
Sum of age of remaining members = 288 - 32 = 256
Required average = 256/7 = 36.57
Therefore The correct answer is 36.57.

**Q61. Answer: (c) 81**

Given:
Principal = Rs.10000
Formula used:
Amount= P × {1 + (R/100)}^t
C.I = Amount - Principal

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Calculation:
When compounded annually,
C.I = (10000 × 18 × 1)/100
C.I = Rs.1800
When compounded half yearly,
=> Rate = 18/2 = 9%
=> Time = 2 × 1 = 2
Amount = P × {1 + (R/100)}t
=> 10000 × {1 + (9/100)}²
=> 10000 × (109/100)²
=> Rs.11881
C.I = (11881 - 10000) = Rs.1881
Required difference = 1881 - 1800 = Rs.81
Therefore The correct answer is 81.

**Q62. Answer: (a) 23.52**

Calculation:
Let the cost of 1 kg sugar be Rs.x
Actual Cost price = (680/1000) × x = 0.68x
Loss = 16% of x = 0.16x
Selling price = x - 0.16x = 0.84x
Profit % = {(SP - CP)/CP} × 100 = {(0.84x - 0.68x)/0.68x} × 100 = 23.52%
Therefore The correct answer is 23.52%.
Alternate MethodCalculation:
Fraction of 16% = 4/25

| Cost price | Selling price |
|---|---|
| 25 | 21 |
| 17 | 25 |

Overall C.P : S.P = 17 : 21
Profit % = {(21 - 17)/17} × 100 = 23.52%
Therefore The correct answer is 23.52%.

**Q63. Answer: (a) 385**

Calculation:
Effective discount = [5 + 15 - {(5 × 15)/100}] % = 19.25%
Marked price = Rs.2000
Discount = 19.25% of 2000
=> (19.25/100) × 2000 = Rs. 385
Therefore The correct answer is Rs. 385.

**Q64. Answer: (a) 3 - 2√2**

Calculation:
=> √(3 - 2√2)/ (3 + 2√2)
=> √{(3 - 2√2)(3 - 2√2)} / {(3 + 2√2)(3 - 2√2)}
=> √(3 - 2√2)² / (9 - 8)
=> √(3 - 2√2)² / 1
=> 3 - 2√2
Therefore The correct answer is 3 - 2√2.

**Q65. Answer: (c) 12**

Calculation:
Let the number of men be x

Time taken = 10 days
Now, after increment,
Number of men = (x + 3)
Time taken = 10 - 2 = 8
Now, as work done is equal
=> x × 10 = (x + 3) × 8
=> 10x = 8x + 24
=> 2x = 24
=> x = 12
Therefore The correct answer is 12.

**Q66. Answer: (a) 1**

Given:
Speed of boy = 3 km/hr
Time to cover the distance = 3 h 40 minutes
Calculation:
Speed of walking = 3 km/hr
Time taken by walking = 3 hours 40 min = 3 + (40/60) = 3 + (2/3) = 11/3 hours
Distance covered by walking = speed × time = 3 × (11/3) = 11 km
Time taken by cycle = 11 hours
Speed of cycle = distance/time = 11/11 = 1 km/hr
Therefore The correct answer is 1 km/hr.
Shortcut TrickConcept used:
If the distance is constant, then
Speed prop. to (1/time)
Calculation:
According to the question:
Total Time taken to cover the distance while walking = 3 hr 60 = 11/3 hrs
Now

| | Walking | Cycling |
|---|---|---|
| Time | 11/3 | 11 |
| Speed | 11 | 11/3 |

So,
11 units = 3 km/hr
1 unit = 3 /11
11/3 units = 3/11 × 11/3 = 1 km/hr
Therefore The correct answer is 1 km/hr.

**Q67. Answer: (d) B**

Calculation:
According to the pie chart, the least number of elephants are in sanctuary B because the percentage of B is least.
Therefore The correct option is 4.

**Q68. Answer: (c) 4000**

Calculation:
Number of elephants in Sanctuary F = 10% of all sanctuaries = 400
Total number of elephants in all sanctuaries = (100/10) × 400 = 4000
Therefore The correct answer is 4000.

**Q69. Answer: (c) 36**

Calculation:
Measure of central angle of the sector representing the number of elephants in Sanctuary D = (10/100) × 360 = 36°

Therefore The correct answer is 36°.

**Q70. Answer: (a) 200**

Calculation:

Number of elephants in Sanctuary F = 10% of all sanctuaries = 400

So, total number of elephants in all sanctuaries = (100/10) × 400 = 4000

Average area occupied by each elephant = 50 sq. km

Total area occupied of these sanctuaries = 50 × 4000

=> 200000 sq. km = 200 (in 1000 sq. km)

Therefore The correct answer is 200 (in 1000 sq. km).

**Q71. Answer: (c) 12**

Given

The area of an equilateral triangle is $36\sqrt{3}$ cm²

Formula used:

Area = $(\sqrt{3}/4) \times \text{side}^2$

Calculation:

=> $(\sqrt{3}/4) \times \text{side}^2 = \text{Area}$

=> $(\sqrt{3}/4) \times \text{side}^2 = 36\sqrt{3}$

=> $\text{side}^2 = 144$

=> side = 12

Therefore side = 12 cm

**Q72. Answer: (c) 5**

Given:

Sum of all interior angles = 540°

Formula used:

Sum of all interior angles = (n - 2) × 180°.

Calculation:

Let the regular polygon have 'n' sides.

According to the question:

=> (n - 2) × 180° = 540°

=> n - 2 = 3

=> n = 5

Therefore The correct answer is 5.

**Q73. Answer: (d) 6**

Given:

Curved surface area = 132 cm²

Diameter = 7 cm

Formula used:

Curved surface area = 2 × π × radius × height

Calculation:

Radius = diameter/2 = 7/2 cm

2 × π × radius × height = Curved surface area

=> 2 × (22/7) × (7/2) × height = 132

=> Height = 6 cm

Therefore The correct answer is 6 cm.

**Q74. Answer: (d) 5/6**

Given:

ΔXYZ is right angled at Y

angle X = 30o

Calculation:

m angle Y = 90° and m angle X = 30°

By angle sum property,

=> m angle Z = 180° - (m angle X + m angle Y) = 180° - (90° + 30°) = 60°

Now,

cos Z + (1/3) = cos60° + (1/3)

=> (1/2) + (1/3) = 5/6

Therefore The correct answer is 5/6.

**Q75. Answer: (b) 30**

Given:

ΔXYZ measure of angle Y is 90o.

XY - 16 cm

Tan X = 15/8

Calculation:

According to the question:

tan X = 15/8

=> YZ/XY = 15/8

=> YZ = 15k and XY = 8k

Now,

=> 8k = 16

=> k = 2

=> YZ = 15k = 15 × 2 = 30 cm

Therefore The correct answer is 30 cm.

**Q76. Answer: (a) John Maynard Keynes**

• John Maynard Keynes was the British economist who gave very substantial contributions in the field of Macroeconomics.

• He classified the money in two categories in accordance with the nature of money in which it is used. His contribution in the Economics is known as the Keynesian Economics.

**Q77. Answer: (a) Small industry**

The correct answer is Small Industry.

Key Points

• SIDO stands for Small Industry Development Organisation which is an organisation which helps different small industries to grow.

| Small Industries Development Organization (SIDO) | National SME Development Agency of India |
|---|---|
| Head | Development Commissioner for Small Scale Industries (DCSSI) |
| Nodal Ministry | Ministry of Micro, Small & Medium Enterprises |

**Q78. Answer: (b) Devaraya I**

The correct answer is Devraya I

Key Points

• Tajuddin Firuz's biggest victory was to make a marriage alliance with the Vijayanagar Empire after getting married with daughter of Deva Raya I.

Additional Information

| Ruler | Dynasty/ Kingdom | Other details |
|---|---|---|
| TajuddinFiruz | Bahamani | Founder of Bahamani Kingdom was AlauddinBahman Shah |
| Krishna Deva Raya | Tuluva | Great patron of literature and art, also known as Andhra Bhoja |
| Deva Raya I | Sangama | Built Mallikarjuna temple in Mallapangudi, near Hospet |

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**Q79. Answer: (c) Shah Jahan**

The correct answer is Shaha Jahan.

Key Points

• The Vakil was the royal deputy. It was a post filled only twice under the seven great Mughal emperors.

• At the end of Akbar's reign, the office of Vakil became 'more or less honorific' and continued till the reign of Shah Jahan.

Additional Information

• Akbar

• He reformed and strengthened his central administration and also centralized his financial system and homeithe tax-collection procedures.

• Though he never renounced Islam, he took an active interest in other religions, motivating Hindus, Zoroastrians and Christians as well as Muslims, to engage in religious discussions before him.

• Illiterate himself, he encouraged scholars, poets, painters and musicians, making his court the center of culture.

• Jahangir

• Jahangir was a ruler interested in literature, music, painting and architecture.

• During his reign, British officers William Hawkins and Sir Tomas Rowe appeared in the Mughal court.

• Jahangir wrote his autobiography titled 'Tujuk-e-Jahangiri'.

• Aurangzeb

• Aurangzeb was a ruler of Mughal dynasty.

• He was the son of Shah Jahan.

• He died in the year 1707.

• He imposed Jizya, a military tax on non-Muslims who were not fighting for Mughal Empire.

• He was succeeded by his son Bahadur Shah I.

• Aurangzeb was also known as 'Zinda Pir' because of his simple lifestyle.

**Q80. Answer: (c) Caroni**

The correct answer is Caroni.

Key Points

• Angel falls is the world's highest waterfall which is uninterrupted. It is located in Venezuela, South America.

• Angel falls is named after the famous aviator Jim Angel.

• It is on the river Churun, which is a tributary of Caroni River

Additional Information

• The Amazon River :

• It runs through the Amazon rainforest is the world's second-longest river after the Nile.

• It is also the world's largest by water volume.

• It comprises hundreds of waterways that stretch across 6,840 km.

• It has 17 tributaries that drain 55 million gallons of water every second into the Atlantic Ocean.

• Orinoco

• The Orinoco river originates from the Western Cordillera and falls into the Caribbean Sea.

• Parana River

• Formed at the confluence of the Paranaiba and the Rio Grande rivers in southern Brazil.

**Q81. Answer: (c) 8^o 4 N**

The correct answer is 8o 4 N.

Key Points

• India is situated north of the equator between 8°04' to 37°06' north latitude and 68°07' to 97°25' east longitude. The southern boundary of India's mainland is 8°04'.

• The southernmost point ofthe Indian Union– 'Indira Point' got submerged underthe sea water in 2004 during the Tsunami.

Important Points

| India's Location in world | Northern and Eastern Hemisphere |
|---|---|
| North to South Distance | 3214 km |
| West to East Distance | 2933Km |

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| | |
|---|---|
| Total land area in the world | 2.4% |
| Area-wise rank | Seven largest |
| Population as compared to the world | 17.5% |

**Q82. Answer: (b) Agam**

The correct answer is Agam.

Key Points

• Jain literature is contained in the Agam in which a number of Jain texts are there in the Ardha-MaghdiPrakrit language.

• The basic philosophy of the Jainas was already in existence in north India before the birth of Vardhamana, who came to be known as Mahavira, in the sixth century BCE.

Important Points

| **Teachings of Jainism** | **1. Ahimsa 2. Satya 3. Achaurya or Asteya 4. Brahmacharya 5. Aparigraha** |
|---|---|
| Sects of Jainism | 1. Shwetamber 2. Digambar |

Additional Information

• Agamas

• The texts containing the teachings of Mahavira are called the Agamas and are the canonical literature - the scriptures - of Svetambara Jainism. Mahavira's disciples compiled his words into texts or sutras and memorized them to pass on to future generations.

• Kalpa Sutra

• It was written by Bhadrabahu.

• It contains the biographies of the Jain Tirthankaras, most notably Parshvanath and Mahavira, including the latter’s Nirvana. Since Bhadrabahu was a teacher of Chandragupta Maurya, we can say that it was compiled in Mauryan Era.

• Sutta Pitaka

• The Basket of Discourse- contains sermons and doctrinal and ethical discourses attributed to the Buddha or sometimes to his disciples.

**Q83. Answer: (c) Australia**

• India and Australia inaugurated their Foreign Secretaries and defence Secretaries dialogue in 2017.

• It was a great step towards the improvisation of the bilateral relations of in different areas along with the defence co-operation.

**Q84. Answer: (a) NITI Aayog**

The correct answer is NITI Aayog.

Key Points

• Dr. Vinod Paul:-

• He is member of NITI Aaayog and the first Indian to win this prestigious award which is conferred by the WHO on the behalf of IhsanDogramaci Family Health Foundation.

• He has done extraordinary world in the area of family health and for his work he has been awarded with this Global Award.

• He was also the Chairman of The Board of Governors of the Medical Council of India.

Additional Information

• World Health Organization:-

• It is a specialized agency of the United Nations responsible for international public health.

• The WHO was established by the constitution on 7 April 1948, which is commemorated as World Health Day.

• The headquarters of the World Health Organisation (WHO) is located in Geneva, Switzerland.

• Tedros Adhanon is the Director-General of the World Health Organization.

**Q85. Answer: (c) Devanagari**

• Nepali language is written in Devanagari script. Devanagari script is used for the 120 Indo-Aryan Languages which include Hindi, Nepal, Marathi, Awadhi and Newari.

• This script written from left to right.

• The Seventy-first Amendment of the Constitution of India amended the Eighth Schedule to the Constitution so as to include Konkani, Meitei (Manipuri) and Nepali languages.

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**Q86. Answer: (a) NaCl has same equivalent weight and molecular weight.**

The correct answer is Equivalent and Molecular weight of NaCl is 58.5

Key Points

• Equivalent weight - The weight of the substance that contains or reacts with 1.0078 g of hydrogen or 8 g of oxygen, or 35.45 g of chlorine.

• Molecular weight - Molecular mass is the sum of atomic masses of the elements present in a molecule. It is obtained by multiplying the atomic mass of each element by the number of its atoms and adding them together.

Important Points

• Salt (NaCl), sodium chloride, mineral substance of great importance to human and animal health, as well as to industry. The mineral form halite, or rock salt, is sometimes called common salt to distinguish it from a class of chemical compounds called salts.

**Q87. Answer: (d) Ultrasonic waves**

The correct answer is Ultrasonic waves

Key Points

• All of these are electromagnetic waves except Ultrasonic waves which are sound waves and cannot propagate through vacuum.

• All other waves, like X-rays, Radio waves and UV-rays can propagate through vacuum.

• The dog, mouse, bat, dolphin etc. have a special ability to hear ultrasonic sounds. Thus, they can sense some noise which are inaudible to us. Children under 5 years of age and some creatures and insects can hear waves with frequency up to 25 kHz. Bats, mice, dolphins, etc., can also produce ultrasound.

**Q88. Answer: (d) No option is correct.**

The correct answer is No option is correct.

Key Points

• According to Indian Constitution, Government is run on the three levels which include local, state, and National levels.

| Level | Political Head | Administrative Head | Elected Member | Tenure |
|---|---|---|---|---|
| Local | Sarpanch | Gram Sevak | Panch | 5 years |
| State | Chief Minister | Chief Secretary | MLA | 5 years |
| National | Prime Minister | Cabinet Secretary | MP | 5 years |

**Q89. Answer: (b) 2**

The correct answer is 2.

Key Points

• This idea of people's participation in the Panchayati Raj system extends to two other levels.

• One is the Block level, which is called the JanpadPanchayat or the Panchayat Samiti.

• The Panchayat Samiti has many GramPanchayats under it.

• Above the Panchayat Samiti is the District Panchayat or the Zila Parishad.

• The Zila Parishad actually makes developmental plans at the district level.

• With the help of Panchayat Samitis, it also regulates the money distribution among all the Gram Panchayats.

**Q90. Answer: (c) Both motile and small**

The correct answer is Both motile and small

Key Points

In sexual reproduction, the male gametes (sperm cells) are generally both motile and small.

• Motility: Male gametes are typically motile, meaning they have the ability to move on their own. This is primarily achieved through the flagellum, a whip-like structure that propels the sperm forward. The motility of sperm is crucial for successful fertilization, as sperm need to travel through the female reproductive tract to reach and penetrate the egg.

• Size: Male gametes are also generally smaller compared to female gametes (eggs). This small size allows sperm to be produced in large quantities and is advantageous for their role in fertilization. Smaller size facilitates easier movement and efficiency in reaching the egg, increasing the chances of successful fertilization.

• The human males have 23 pairs of chromosomes including XY sex chromosomes. Therefore the male gametes has 22 chromosomes and either an X or a Y chromosome. Thus male gametes can be of two types:22+X or 22+Y.

• Female gametes are called egg or ova.

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**Q91. Answer: (a) Parenchyma**

• Parenchyma is the living tissue of plants. It is found in plants and animals.

• It is a functional tissue which works as a support to the plants and it stores food for the plants.

| Type of tissue | Function |
|---|---|
| Aerenchyma | Permanent tissue that helps the aquatic plants to float. |
| Collenchyma | Elongated cells which have irregular thick cell walls to provide structure and support |
| Sclerenchyma | Strengthening tissue in a plant which is formed from thick walls. |

**Q92. Answer: (c) New Delhi**

• All India Institute of Ayurveda Institute was inaugurated in New Delhi on 17^(th) October 2017 on Ayurveda day. Ayurveda Institutes are being opened in accordance with the AIIMS.

• Ministry of Aayush will be responsible ministry for these institutes.

**Q93. Answer: (b) North-Eastern states**

• Northeast is all set to get India's first-ever "Air Dispensary" based in a helicopter and the Union Ministry of Development of Northeast (DONER) will be responsible for managing this and it will contribute Rs. 25 crore as part of the initial funding for this initiative.

• Dr. Jitendra Singh is the Minister of State for the North-Eastern region. Air-dispensary will be helpful in reaching the remotest areas of North-East region which are far from hospital facility.

**Q94. Answer: (c) Y. H. Malegam Committee**

The correct answer is Y. H. Malegam Committee.

Key Points

• Y. H. Malegam Committee is an expert committee constituted by the Reserve Bank of India in February 2018 to look into rising incidents of fraud, the effectiveness of audits, and the classification of bad loans.

• Y.H.Malegam would be heading the committee who is a former member of the Central Board of Directors of RBI.

Additional Information

| N Gopalaswami committee | To select 20 "institutes of eminence" |
|---|---|
| N. Chandrashekhar Committee | The Sodhi Committee is a high-level committee to review SEBI (Prohibition of Insider Trading) Regulations |
| Vinay Sheel Oberoi committee | To expedite capital acquisition |

**Q95. Answer: (d) Anganwadi Services Training Programme**

• Management Information System (MIS) portal is a portal launched by the Women and Child Development Ministry for the Anganwadi Service Training Programme.

• It is used for submitting applications/estimates by NGOs for carrying out Anganwadi Services (ICDS) Training through AWTCs/MLTCs.

• Smt. Smriti Zubin Irani is the Union Minister of Women and Child Development portfolio.(Nov 2020)

**Q96. Answer: (b) 144**

• All bulbs glow with the heating effect in which the heating filament in the bulb glows after reaching a specific temperature at a specific time.

CONCEPT:

• The rate of flow of electric charge is called an electric current.

• Due to the flow of electric current in resistance, there is some heat generated in that resistance. This phenomenon is called the heating effect of current.

• The electric heater generates heat by using the electric current flowing in it.

=> Heat generated (H) = I2 R t = power (P) × time taken (t)

Where I is current, R is resistance and t is the time taken

CALCULATION:

• Heat Released= Power capacity × Time

Heat released= 24 W × 6 Seconds = 144 Joule

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**Q97. Answer: (d) Rarefaction**

• Rarefaction is a state of being minimum pressure in a medium traversed by compressional waves. Rarefaction is opposite to compression.

| Term | Meaning |
|---|---|
| Perpetuation | The act of continuing an activity without interruption |
| Gyration | A rapid movement in a circle or spiral |
| Rarefaction | Reduction of an item's density, the opposite of compression |

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

The correct answer is Carbonates.

Explanation:

• Marine animals use calcium carbonates for making their shells while using the process of Ocean Acidification. Calcium carbonates are found in abundance in seawater.

• Animals make hard shells from calcium carbonates. This process is called coastal acidification.

**Q99. Answer: (a) Only A**

The correct answer is Only A.

Key Points

• Women's World Junior Chess Championship.:-

• Zhansaya Abdumalik won the Chess 2017 Women's World Junior Chess Championship. (Statement A is correct)

• Marc Marquez raced for Honda in MOTOGP 2017. (Statement B is incorrect)

• Gabine Muruguza won the Tennis 2017 Wimbledon Championship after defeating Venus Williams. (Statement A is incorrect)

**Q100. Answer: (d) COLSPAN**

The correct answer is COLSPAN.

Key Points

• HTML is a language which is used to create web pages and web applications. There are a number of attributes in HTML language and COLSPAN is one of them.

• COLSPAN is the attribute of HTML language which defines the number of columns a table cell should span. It can be applied to and.

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