

NIACL AO Mock Test 3

Direction Q.1 -Q.8: Study the problems and choose the appropriate options

Q.1 In a certain code language, 'how many goals are scored' is written as '5 3 9 7', 'many more matches' is written as '9 8 2' and 'he scored five' is written as '1 6 3'. How is 'goals' written in that code language?

1. 5
2. 7
3. 5 or 7
4. Data inadequate
5. None of these

Q.2 How many meaningful English words can be made with the letters DLEI using each letter only once in each word?

1. None
2. One
3. Two
4. Three
5. More than three

Q.3 Among A, B, C, D and E, all having different weights, D is heavier than only A and C is lighter than B and E. Who among them is the heaviest?

1. B
2. E
3. C
4. Data inadequate
5. None of these

Q.4 Each odd digit in the number 5263187 is substituted by the next higher digit and each even digit is substituted by the previous lower digit and the digits so obtained are rearranged in ascending order. Which of the following will be the third digit from the left end after this rearrangement?

1. 2
2. 4
3. 5
4. 6

5. None of these

Q.5 Pratik remembers well that his brother's birthday is before the twenty-third of April but after the nineteenth of April, while his mother remembers that his brother's birthday is not on or after the twenty second of April. On which day in April is definitely the younger brother's birthday?

1. Twentieth
2. Twenty-first
3. Twentieth or twenty-first
4. Cannot be determined
5. None of these

Q.6 Rana started walking towards south. After walking 50 m, he took a right turn and walked 30 m. He then took a right turn and walked 100 m. He again took a right turn and walked 30 m and stopped. How far and in which direction was he from the starting point

1. 50 m south
2. 150 m north
3. 180 m east
4. 40 m north
5. None of these

Q.7 If \div means '+', '-' means 'x', 'x' means ' \div ' and '+' means '-', then $15 - 8 \times 6 \div 12 + 4 = ?$

1. 20
2. 28
3. 8
4. 2
5. None of these

Q.8 Town D is towards east of Town F. Town B is towards north of Town D. Town H is towards south of Town B. Towards which direction is Town H from Town F?

1. East
2. Southeast
3. Northeast
4. Data Inadequate
5. None of these

Directions Q.9 - Q.13: What should come in place of the question mark (?) in the following number series?

Q.9 7413 7422 7440 ? 7503 7548

1. 7464
2. 7456
3. 7466
4. 7477
5. None of these

Q.10 4 16 36 64 100 ?

1. 120
2. 180
3. 136
4. 144
5. None of these

Q.11 12 33 96 ? 852 2553

1. 285
2. 288
3. 250
4. 384
5. None of these

Q.12 70000 14000 2800 ? 112 22.4

1. 640
2. 420
3. 560
4. 540
5. None of these

Q.13 102 99 104 97 106 ?

1. 96
2. 95
3. 100
4. 94
5. None of these

Q.14 The number of teachers in colleges A, B, C, D, E and F are 704, 1088, 1216, 384, 1856 and 1152 respectively. What is the average number of teachers in College A, College C, College D and College F together?

1. 854
2. 3546
3. 3456
4. 874
5. None of these

Q.15 The average weight of 8 persons increased by 2.5 kg, when one person whose weight is 65 kg is replaced by a new person. What is the weight of the new person?

1. 78 kg
2. 82 kg
3. 85 kg
4. 80 kg
5. 75 kg

Q.16 The largest and the second largest angle of a triangle are in the ratio 4:3, respectively. The numeric value of the smallest angle of a triangle is 3 less than the square of 6. What is the value of the largest angle of a triangle?

1. 90°
2. 78°
3. 84°
4. 80°
5. None of these

Q.17 The side of a square is twice the length of a rectangle of area 828cm^2 . Perimeter of a rectangle is 118cm. What is the perimeter of the square?

1. 210 cm
2. 288 cm
3. 144 cm
4. Cannot be determined
5. None of these

Directions Q.18 - Q.22: Read each sentence to find out whether there is any form of grammatical error in it. The error, if any, will be in one part of the sentence. Mark that part as the answer that is selected. If the sentence is correct, mark 5 (no error) as your answer. (Ignore the errors of punctuation, if any)

Q.18

1. Bollywood films with happy endings
2. Where the single and determined fighter takes on all
3. That is evil is not only three-hour escapades
4. But indicators of our need to hope
5. No error

Q.19

1. The circus saw a group of over 60 artists
2. From different states across the country
3. Showcasing a range of performance
4. Local art forms and traditional games
5. No error

Q.20

1. Ronak as well as Kavya
2. Were willing
3. To represent them
4. In the competition last year
5. No error

Q.21

1. The primary characteristics
2. Of motives are that
3. One can never observe
4. The motives directly
5. No error

Q.22

1. The astronomer, knowing
2. The relations of the members
3. Of the solar system, can successfully predict
4. The occurrence of the lunar and solar eclipse
5. No error

Q 23. Each of the following questions has a paragraph from which the last sentence has been deleted. From the given options, choose the sentence that completes the paragraph in the most appropriate way.

There is no drug in the world that can be declared 100% safe, but a series of studies published in early September raises doubts on how researchers gather data on the safety and effectiveness of medications. The studies also raises questions on how the Food and Drug Administration (FDA) analyzes this material before the approval of a drug. Two new trials question the effectiveness and the safety of the well-known diabetes drug Avandia or Rosiglitazone by showing that the blood-sugar-controlling medication raises the risk of heart disease in Type 2 diabetes patients.

1. Similar questions were raised with respect to another best-selling class of drugs, the cholesterol-lowering medications known as statins
2. The study questions whether statins is capable of reducing the risk of a disease-free patient dying from a first-time heart attack
3. The back-and-forth over both drugs only elucidates the fact that the most compelling data regarding new drugs emerge only after it hits the shelves.
4. It's frustrating to see that a drug this dangerous being aggressively marketed and particularly to people who already suffer a debilitating ailment.
5. The results confirm previous data on the potentially dangerous risks of a drug that has been used widely since 1999.

Q 24. The following questions have a paragraph that has the last deleted. From the given options, choose the sentence that completes the paragraph in the correct way.

The pessimistic Deep Ecologists, while explaining our relationship to the Earth, says that humanity plays the role of pathogens, giving the earth a fever and threatening the planets vital functions. These Deep Ecologists assign our species role of a global cancer, spreading out of control and consuming resources that are vital to the planets survival_____

1. They believe that only an eccentric attitude can restore life on earth
2. The real problem is androcentric - 'male-centeredness' which results in the destruction of the ecosystem.
3. When we start identifying ourselves with the trees and animals, indeed the whole ecosystem, we will stop causing damage to the planet
4. They strongly believe that the end of the planet is near and the dominating attitude of the human race is responsible.
5. The belief of the Deep Ecologists are almost synonymous with the statements made by apocalyptic doomsday cults.

Directions (Q.25): The word given below in capitals has been used in different ways. Choose the option corresponding to the sentence where the word has been used incorrectly.

Q.25

LAUGH

1. The act concerned over your plight and reply to your queries courteously but you get the feeling that they are laughing off your sleeve.
2. The more we blunder the louder our competitors laugh at us
3. We had the last laugh after the results of shooting competition were announced
4. For my trouble in suggesting the merger, the board members laughed me out of the room.
5. The very idea of united offensive in the Ardennes forest is something to laugh at.

Answer Key

Q. 1 - 3	Q. 2 - 5	Q. 3 - 4	Q. 4 - 2	Q. 5 - 3
Q. 6 - 4	Q. 7 - 2	Q. 8 - 4	Q. 9 - 5	Q.10 - 4
Q. 11 - 3	Q. 12 - 1	Q. 13 - 2	Q. 14 - 5	Q. 15 - 3
Q. 16 - 3	Q .17 - 2	Q. 18 - 3	Q. 19 - 3	Q. 20 - 2
Q. 21 - 2	Q. 22 - 5	Q. 23 - 4	Q. 24 - 4	Q. 25 - 1

Solutions

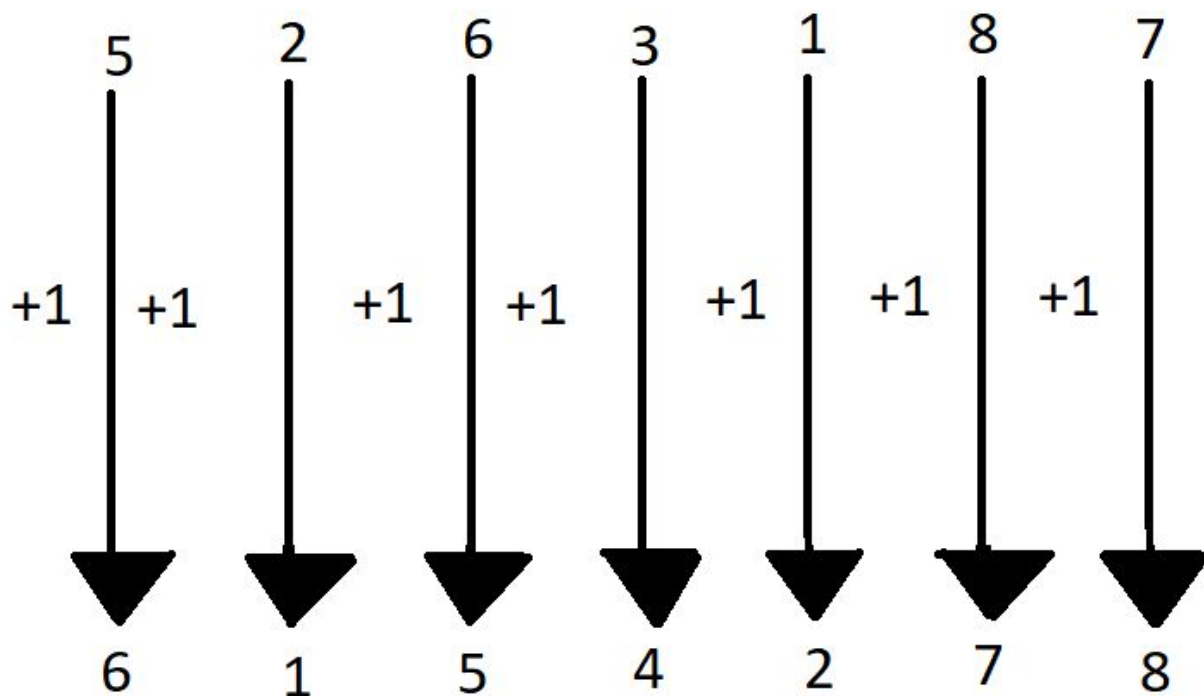
Solution Q.1 - Q.8:

Solution 1: (3) From the given information, the code for *many* is 9 and that for *scored* is 3. So the code for *goals* is either 5 or 7

Solution 2: (5) The words formed by DLIE are LIED, DELI, DIEL and IDLE

Solution 3: (4) From the given information, either B or E is the heaviest

Solution 4: (2) The given number is



Number after applying the condition

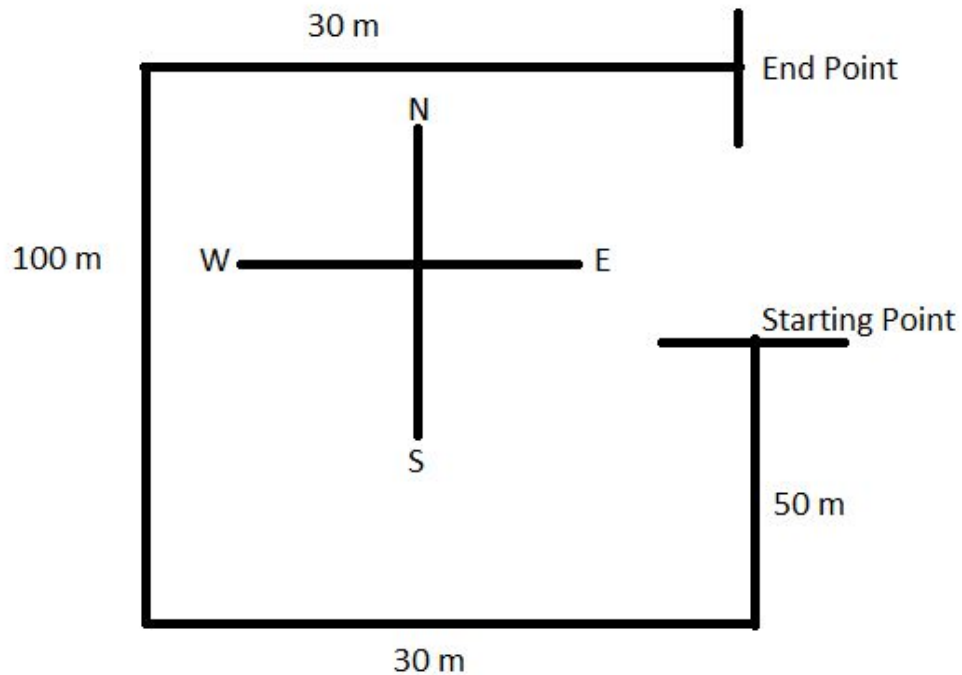
The obtained numbers in an ascending are 1245678 and hence the required number at the third place from left is 4

Solution 5: (3) According to Pratap, the date of his mother's birthday is on 20, 21 or 22

And, according to his sister, her mother's birthday is not on 22

So, their mother's birthday is either 20th or 21st April

Solution 6: (4) From the figure below he is at a distance of 50 m in the north direction from his initial position



Solution 7: (2) By replacing the symbols with the correct ones, the expression becomes

$$15 \times 8 \div 6 + 12 - 4 = 28$$

Solution 8: (4) Since Town H is in the south of Town B, it can be either be below D or Between B and D. Thus, we cannot determine the exact position of H

Solution Q.9 - Q.13

Solution 9: (5)

7413 7422 7440 ? 7503 7548

By the pattern observed, consecutively, a multiple of 9 is added to each term

$$7413 + 9 = 7422$$

$$7422 + 18 = 7440$$

$$7440 + 27 = 7467$$

$$7467 + 36 = 7503$$

$$7503 + 45 = 7548$$

Solution 10: (4)

$$4 \quad 16 \quad 36 \quad 64 \quad 100 \quad ?$$

By the pattern observed, consecutively, a multiple of 9 is added to each term

Therefore, the unknown term would be $(12)^2$, i.e. 144

Solution 11: (1)

$$12 \quad 33 \quad 96 \quad ? \quad 852 \quad 2553$$

With the observation of the pattern, we get

$$12 \times 3 - 3 = 33$$

$$33 \times 3 - 3 = 96$$

$$96 \times 3 - 3 = 285$$

$$285 \times 3 - 3 = 852$$

$$852 \times 3 - 3 = 2553$$

Solution 12: (3)

$$70000 \quad 14000 \quad 2800 \quad ? \quad 112 \quad 22.4$$

Here, each term is divided by 5

$$70000 \div 5 = 14000$$

$$14000 \div 5 = 2800$$

$$2800 \div 5 = 560$$

$$560 \div 5 = 112$$

$$112 \div 5 = 22.4$$

Solution 13: (2)

$$102 \ 99 \ 104 \ 97 \ 106 \ ?$$

The given series consists of two series i.e. 102, 104, 106, ... (increasing by 2) and 99, 97, ... (decreasing by 2)

Therefore, the required term = $97 - 2 = 95$

Solutions Q.14 - Q.17

Solution 14: (5) Average = $704 + 1216 + 384 + 1152/4 = 864$

Solution 15: (3) Total increase in weight due to addition of new persons = $2.5 \times 8 = 20$ kg

Weight of new persons = $65 + 20 = 85$ kg

Solution 16: (3) Smallest angle of the triangle = $6^2 - 3 = 33^\circ$

Sum of remaining two angles = $180^\circ - 33^\circ = 147^\circ$

Let $4x$ and $3x$ be the remaining two angles of a triangle. Then,

$$4x + 3x = 147^\circ$$

$$\Rightarrow x = 21^\circ$$

Largest angle of the triangle = $4x = 4 \times 21^\circ = 84^\circ$

Solution 17: (2) Let L and B be the length and breadth of a rectangle, respectively Then

$$2(L + B) = 118$$

$$\Rightarrow L + B = 59 \dots (1)$$

$$\text{Also, } LB = 828 \dots (2)$$

From (1) and (2) we get

$L = 36\text{cm}$ and $B = 23\text{ cm}$

Length of square = $2L = 2 \times 36 = 72\text{ cm}$

Perimeter of square = $4 \times 72 = 288\text{ cm}$

Solution Q.18 - Q.22

Solution 18: (3) In the phrase 'is not only', the verb 'is' is used for the plural subject 'Bollywood films'. So, it needs to be replaced with the plural verb 'are'

Solution 19: (3) 'A range of' should be followed by a plural noun. So, 'performance' should be changed to 'performances'

Solution 20: (2) Here, the subject is 'Raghav'. Therefore, it will take the singular verb 'was' as per the context given in the sentence

Solution 21: (2) The subject here is 'primary characteristic', which is singular. So, it will take a singular verb, i.e. 'is'

Solution 22: (5) There is no error in the sentence

Solution 23: Choice (4) merely indicates that the present findings are reiterations of earlier findings while other choices does not relate to such a concern.

Solution 24: The paragraph is about 'pessimistic Deep Ecologists' and their beliefs. Option (4) is the most appropriate has it fits well into the context, while other options are more or less clear.

Solution 25: Choice (1) is incorrect. The correct idiom here is 'laugh up your sleeve' or 'laugh in your sleeve'. The rest of the usage is correct.