

NIACL/DCCB Preliminary Grand Test –NIACL/DCCB-190109

ANSWER KEY

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

HINTS & SOLUTIONS

1. (3)
2. (4)
3. (1)
4. (3)
5. (5)
6. (3)
7. (1) **Offshoring (Noun)** = the practice of a company in one country arranging for people in another country to do work for it.
8. (2) **Acute (Adjective)** = very serious or severe.
Look at the sentence:
There is an acute shortage of water.
9. (3) **Redundancy (Noun)** = the situation when somebody has to leave their Job because there is no more work available for them.
Look at the sentences :
Thousands of factory workers are facing redundancy.
There is no shortage of = there are plenty of) things to do in the town.
10. (4) **Generate (Verb)** = to produce or create something.
Destroy (Verb) = to damage something badly that it no longer exists.

Look at the sentence :

- We need someone to generate new ideas.
They have completely destroyed all the evidence.
11. (4) his commitment to
12. (1) which have led to
13. (3) so scarce that
14. (2) If you are fortunate
15. (5) No correction required
16. (4) D
17. (2) B
18. (1) A
19. (5) E
20. (3) C
21. (1) **In order to do something** = with the purpose or intention of doing or achieving something.
Look at the sentences :
She arrived early in order to get a good seat.
Hence, In order to take their..... should be used here.
Police is generally used in Plural.
22. (2) Here, the commission (singular) has found.....should be used here.
Find \Rightarrow found (Past) \Rightarrow found (Past participle)
Found \Rightarrow to start something; establish.
Found \Rightarrow founded (Past) \Rightarrow founded (Past participle).
23. (1) The event relates to the present and has effect on present. Hence, Present Perfect i.e., Social media has disclosed thatshould be used here.
24. (3) Here, For one this intangible sector has suddenly (Adverb) been witness (Noun).....should be used. Look at the structure of the sentence.
25. (4) In Passive Voice, V_3 i.e., default encouraged to put their.....should be used here.

26. (4) perfected
27. (3) modifications
28. (1) designed
29. (2) demands
30. (3) vogue
31. (5) The given number series is based on the following pattern:
 $487.5 - 357.5 = 130$
 $357.5 - 247.5 = 110$
 $247.5 - 157.5 = 90$
 $157.5 - 87.5 = 70$
 $87.5 - 37.5 = 50 \neq 40$
 $37.5 - 7.5 = 30$
Clearly, 47.5 is the wrong number. It should be replaced by 37.5.
32. (3) The given number series is based on the following pattern
 $13 + 3 = 16$
 $16 + 5 = 21$
 $21 + 7 = 28 \neq 27$
 $28 + 11 = 39$
 $39 + 13 = 52$
 $52 + 17 = 69$

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Clearly, 27 is the wrong number. It should be replaced by 28.

33. (3) The given number series is based on the following pattern :

$$1500 + 81 = 1581$$

$$1581 + 83 = 1664$$

$$1664 + 85 = 1749$$

$$1749 + 87 = 1836 \neq \boxed{1833}$$

$$1836 + 89 = 1925$$

$$1925 + 91 = 2016$$

Clearly, 1833 is the wrong number. It should be replaced by 1836.

34. (2) The given number series is based on the following pattern :

$$66 + 25 = 91$$

$$91 + 29 = 120$$

$$120 + 33 = 153$$

$$153 + 37 = 190$$

$$190 + 41 = 231 \neq \boxed{233}$$

$$231 + 45 = 276$$

Clearly, 233 is the wrong number. It should be replaced by 231.

35. (1) The given number series is based on the following pattern :

$$11 \times 11 \times 11 = 1331$$

$$13 \times 13 \times 13 = 2197$$

$$15 \times 15 \times 15 = 3375$$

$$17 \times 17 \times 17 = 4913 \neq \boxed{4914}$$

$$19 \times 19 \times 19 = 6859$$

Clearly, 4914 is the wrong number. It should be replaced by 4913.

36. (4) From statement A, A number divisible by 2 is an even number.

$$2 + 3 = 5 \text{ (odd number)}$$

$$4 + 9 = 13 \text{ (odd number)}$$

37. (1) From statement A, Let the number be x.

$$\Rightarrow \frac{x}{2} - \frac{x}{3} = 27 \Rightarrow \frac{3x - 2x}{6} = 27$$

$$\Rightarrow x = 27 \times 6 = 162$$

Statement B is superfluous.

38. (3) From both statements,

$$T : S = 6 : 5$$

$$T : D = 3 : 2 = 6 : 4$$

$$\therefore T : S : D = 6 : 5 : 4$$

Let the present ages of Danish and Shivay be 4x and 5x years respectively.

$$\therefore \frac{4x + 6}{5x + 6} = \frac{6}{7}$$

$$\Rightarrow 30x + 36 = 28x + 42$$

$$\Rightarrow 2x = 6 \Rightarrow x = 3$$

Hence, the age of Shivay can be determined.

39. (2) From statement B,

Men	Days
9 ↑	27 ↓
15 ↑	x ↓

$$\Rightarrow 15 : 9 = 27 : x$$

$$\Rightarrow 15 \times x = 9 \times 27$$

$$\Rightarrow x = \frac{9 \times 27}{15} = \frac{81}{5} \text{ days}$$

40. (5) From statement A, A + E = 64500 .

From statement B,

$$B + F = 52600$$

$$\therefore C + D = (A + B + C + D + E + F) - (A + B + E + F)$$

Hence, the age of C cannot be determined.

41. (1) Required average

$$= \frac{1}{6} (109.8 + 97.5 + 97.8 + 105.8 + 44.5 + 43.5) \text{ crores}$$

$$= \frac{498.9}{6} = 83.15 \text{ crores}$$

42. (2) Required average = $\frac{1}{6} (38.2 + 88.5 + 57.5 + 97.8 + 112.9 + 108.5) \text{ crores}$

$$= \frac{503.4}{6} = 83.9 \text{ crores}$$

43. (3) Total number of mobile phone sold :

$$\text{Year 2007} \Rightarrow 571.8 \text{ crores}$$

$$\text{Year 2011} \Rightarrow 266.5 \text{ crores}$$

$$\text{Difference} = 571.8 - 266.5 = 305.3 \text{ crores}$$

44. (4) Required percent = $\frac{109.9 - 104.5}{109.9} \times 100$

$$= \frac{5.4 \times 100}{109.9} = 5\%$$

45. (1) Required ratio = 57.5 : 78.5 = 115 : 157

46. (5) Number of male employees in IT department

$$= \frac{2040 \times 20}{100} = 408$$

Number of promoted male employees in IT department

$$= \frac{1}{2} \left(1200 \times \frac{26}{100} \right) = 156$$

$$\therefore \text{Required percentage} = \frac{156}{408} \times 100$$

47. (3) Number of female employees in production department

$$= \left(3600 \times \frac{35}{100} - \frac{2040 \times 50}{100} \right)$$

$$= 1260 - 1020 = 240$$

Number of female employees in marketing department

$$= \left(\frac{3600 \times 18}{100} - \frac{2040 \times 15}{100} \right)$$

$$= 648 - 306 = 342$$

$$\therefore \text{Required number of females} = 240 + 342 = 582$$

48. (1) Number of female employees in accounts department

$$= \frac{3600 \times 20}{100} - \frac{2040 \times 5}{100}$$

$$= 720 - 102 = 618$$

49. (4) Required percentage = $\frac{1200}{3600} \times 100 = 33\%$

50. (2) Total number of employees in HR department

$$3600 \times \frac{12}{100} = 432$$

Number of promoted employees in HR department

$$= 1200 \times \frac{11}{100} = 132$$

Required percentage

$$= \frac{132}{432} \times 100 = 30.56$$

51. (3) Length of rectangle = x cm (let)
 Length = (x + 5) cm. According to question,
 $\Rightarrow (x + 5)(x) = (x + 5 - 3)(x + 2)$
 $\Rightarrow x^2 + 5x = (x + 2)^2 = x^2 + 4x + 4$
 $\Rightarrow 5x - 4x = 4$
 $\Rightarrow x = 4$

\therefore Length of rectangle
 = 4 + 5 = 9 cm.

\therefore Perimeter of rectangle
 = 2(9 + 4) = 26 cm.

52. (1) A : B : C
 = 12 : 5 : 12 : 7 : 6 : 7
 = 10 : 14 : 7

53. (3) 5 women = 3 men
 \therefore 35 women = $\frac{3}{5} \times 35 = 21$ men
 $\therefore M_1 D_1 T_1 = M_2 D_2 T_2$
 $\Rightarrow 20 \times 27 \times 7 = 21 \times 6 \times D_2$
 $\Rightarrow D_2 = \frac{20 \times 27 \times 7}{21 \times 6} = 30$ days

54. (1) Number of students in schools A, B and C respectively =
 3x, 5x and 7x
 \therefore Required ratio after respective increases
 $\left(\frac{3x \times 115}{100}\right) : \left(\frac{5x \times 120}{100}\right) : \left(\frac{7x \times 125}{100}\right) =$
 = (3 × 115) : (5 × 120) : (7 × 125)
 = 69 : 120 : 175

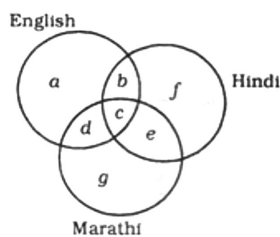
55. (2) Rate downstream = $\frac{20}{2} = 10$ kmph

Rate upstream = $\frac{20}{4} = 5$ kmph

Speed of boat in still water = $\frac{1}{2} (10 + 5)$

$$= \frac{15}{2} = 7.5 \text{ kmph}$$

56-60.



According to the question,

a = 650; f = 550; g = 450; c = 100;
 b + c = 200; c + e = 400
 c + d = 300

\therefore b = 100, e = 300 and d = 200

56. (3) Required difference = 300 - 200 = 100
 57. (5) Number of member who read at least two newspapers
 = 200 + 400 + 300 + 100 = 1000
 58. (3) Number of members reading Hindi newspaper = b + c + e + f
 = 100 + 100 + 300 + 550 = 1050
 59. (2) Number of members reading only one newspaper = a + f + g
 = 650 + 550 + 450 = 1650
 60. (5) Number of newspaper readers = a + b + c + d + e + f + g
 650 + 100 + 100 + 200 + 300 + 550 + 450 = 2350
 \therefore Number of members reading no newspaper
 = 2800 - 2350 = 450
 61. (2) $63251 \times 82 = ? \times 42105$
 $\Rightarrow ? = \frac{63251 \times 82}{42105} = 123$

62. (4) $? = \sqrt{84111} = 290$

63. (1) $? = (54.78)^2 = (55)^2 = 3025$

\therefore Approximate answer = 3000

64. (5) $? = (7171 + 3854 + 1195) \div (892 + 214 + 543) = 12220 \div 1649 = 7$

65. (3) $? = \left(\frac{816 \times 562}{100}\right) + 1449 = 4586 + 1449 = 6035$

66. (3) D ÷ N \Rightarrow D is sister of N.

N - K \Rightarrow N is mother of K.

Therefore, D is maternal aunt of K.

D ÷ N \Rightarrow D is sister of N.

N + K \Rightarrow N is father of K.

Therefore, D is paternal aunt of K.

D × N \Rightarrow D is brother of N.

N - K \Rightarrow N is mother of K.

Therefore, D is maternal uncle of K.

67. (2) M × T \Rightarrow M is brother of T.

T + R \Rightarrow T is father of R

Therefore, M is uncle of R.

R ÷ J = R is sister of J.

J + M J is father of M.

M × T = M is brother of T.

Therefore, M is nephew of R

68. (1) R ≥ U = N ≥ S

A > N ≥ D

R ≥ U = N ≥ D

R ≥ U = N < A

D ≤ N ≥ S

Option (1), R ≥ D : True

Option (2), U > A : Not True

Option (3), D < S : Not True

Option (4), A < R : Not True

Option (5), U < D : Not True

69. (1) Obviously, option (1) may be reason for providing the Best Restaurant of the City Award to a newbie.

70. (4) From both the statements.

walk for health \rightarrow he pa ta

morning walk improves health \rightarrow pa ra ta ko

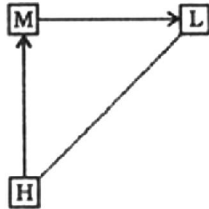
The code for 'health' may be 'pa' or 'ta'.

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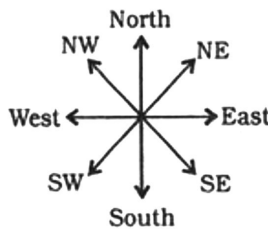
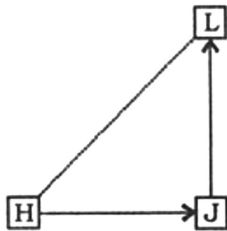


71. (4) From statement I
The gender of Ravindra is not clear.
Ravindra may be mother or maternal uncle of Shubhada.
From statement II
Shubhada may be daughter of Ravindra.

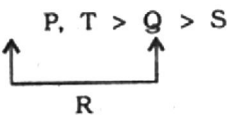
72. (3) From statement I



From statement II



73. (5) From statement I
 $P, T > Q > S$
R
From statement II
Anyone of them except R boarded the train in the last.
From both the statements



74. (5) From both the statements Total number of children in the group = $10 + 20 - 1 = 29$
75 – 79. (i) $P @ Q \Rightarrow P \geq Q$
(ii) $P \% Q \Rightarrow P \leq Q$
(iii) $P @ Q \Rightarrow P = Q$
(iv) $P \$ Q \Rightarrow P < Q$
(v) $P \delta Q \Rightarrow P > Q$

75. (4) $H @ T \Rightarrow H \geq T$
 $T \% M \Rightarrow T \leq M$
 $M \delta F \Rightarrow M > F$
Therefore, $H \geq T \leq M > F$

Conclusions:

- I. $F \$ T \Rightarrow F < T$: Not true
II. $H \delta M \Rightarrow H > M$: Not true

76. (3) $B @ N \Rightarrow B = N$
 $N @ T \Rightarrow N \geq T$

- $T \$ K \Rightarrow T < K$
Therefore, $B = N \geq T < K$

Conclusions:

- I. $T @ B \Rightarrow T = B$: Not True
II. $T \$ B \Rightarrow T < B$: Not True Either I or II is true.

77. (4) $R \$ J \Rightarrow R < J$
 $J \delta F \Rightarrow J > F$
 $F \% H \Rightarrow F \leq H$

Therefore, $R < J > F \leq H$

Conclusions:

- I. $H \delta J \Rightarrow H > J$: Not True
II. $R \$ F = R < F$: Not True

78. (2) $J \delta F \Rightarrow J > D$
 $D @ N \Rightarrow D = N$
 $N \% F \Rightarrow N \leq F$

Therefore, $J > D = N \leq F$

Conclusions:

- I. $J \delta F \Rightarrow J > F$: Not True
II. $F @ D \Rightarrow F \geq D$: True

79. (1) $B \delta T \Rightarrow B > T$
 $T \$ H \Rightarrow T < H$
 $H @ M \Rightarrow H = M$

Therefore, $B > T < H = M$

Conclusions:

- I. $M \delta T \Rightarrow M > T$: True
II. $B \delta H \Rightarrow B > H$: Not True

80. (5) Obviously, option (5) is the appropriate reason of the given facts. People generally consume the quantity contained in a sachets at a time. They do not want to store the ingredient of the sachet after opening it. They think it better to consume the ingredient at once. This necessarily enhances the sale of the products.

81 – 85.

Friends	Area	Hobby
Hetal	Vikhroli	Singing
Jayshreeeee	Thane	Drawing
Rohini	Dadar	Reading
Meena	Kanjurmarg	Cooking
Nidhi	Mulund	Travelling
Swati	Matunga	Dancing

81. (2) Swati's hobby is dancing.
82. (4) Hetal's hobby is singing.
83. (3) Nidhi's hobby is travelling.
84. (1) Jayshree stays in Thane.
85. (4) Rohini stays in Dadar.

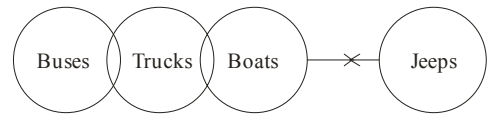
86-88.

Member	Games	Instrument
A	Badminton	Flute
B	Carrom	Banjo
C	Lawn Tennis	Harmonium
D	Table Tennis	Tabla
E	Bridge	Santoor
F	Football	Guitar
G	Hockey	Sitar

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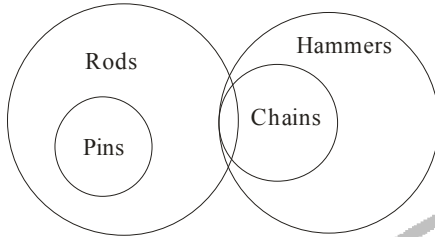


86. (3) E plays Santoor.
 87. (1) D plays Table Tennis.
 88. (5) none of the combinations is correct.
 89. (4) It is mentioned that unseasonal downpour paralysed the normal life in the state. Therefore, it is not prudent to set up a review committee. The Course of action (B) does not address the problem properly. Thus, only Course of action (C) is suitable for pursuing.
 90. (1) Only Course of action (A) is suitable for pursuing.



I) ✗ II) ✗ III) ✗
 Therefore None follows.

91. (4)

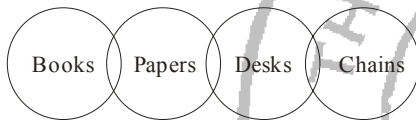


I) }
 III) } ✗ Either I (or) III

II) ✓

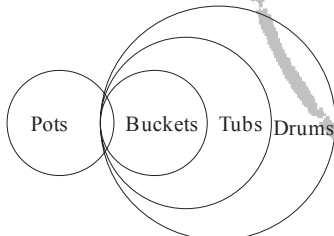
Therefore Either I (or) III and II follow.

92. (1)



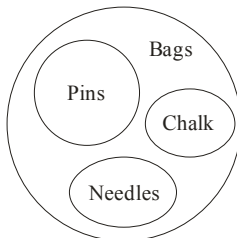
I) ✗ II) ✗ III) ✗
 Therefore None follows.

93. (2)



I) ✓ II) ✗ III) ✓
 Only I and III follows.

94. (3)



I) }
 III) } ✗ Either I (or) III

II) ✗

Therefore Either I (or) III follows.

95. (1)

96 –100.

Candidate	Conditions					
	(i) or (A)	(ii) or (B)	(iii)	(iv)	(v)	
Shobha	✓	-	-	✓	✓	✓
Rohan	✓	-	NG	-	✓	✓
Prakash	-	✓	✓	-	✓	✓
Sudha	✓	-	✓	-	✓	û
Amit	✓	-	✓	-	✓	✓

96. (1) Shobha Gupta does satisfy conditions (i), (B), (iii), (iv) and (v). Therefore, her case would be referred to Executive Director.
 97. (3) It is not mentioned Rohan Maskare worked in which section
 98. (2) Prakash Gokhale does satisfy conditions (A), (ii), (iii), (iv) and (v). Therefore, his case would be referred to General Manager - Advances.
 99. (4) Sudha Mehrotra does not satisfy condition (v).
 100. (5) Amit Narayan does satisfy all the conditions. Therefore, he can be selected.