

DCCB Preliminary Grand Test –DCCB-190114

ANSWER KEY

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

HINTS & SOLUTIONS

1. (4) HDI is as important as growth rates
2. (4) To denote the states which need government's more focused attention
3. (2) These states have registered higher growth rates compared to that of earlier years
4. (2) Poverty and under development in these states is still prevalent
5. (1) These states have not shown improvement in the growth rate
6. (3) Last 5 years
7. (4) The meaning of the word **Dismal (Adjective)** as used in the passage is : showing sadness; gloomy; miserable; not successful.
The meaning of the word **Positive (Adjective)** as used in the passage is : producing a successful result.
Hence, the words **dismal** and **positive** are antonymous.
8. (3) The meaning of the word **Decelerate (Verb)** as used in the passage is : to become or make something become slower; slow down.

The meaning of the word **Accelerate (Verb)** as used in the passage is : to happen or to make something happen faster than expected.

Hence, the words **accelerated** and **decelerated** are antonymous.

9. (2) The meaning of the word **Markers (Noun)** as used in the passage is : an object or a sign that shows the position of something; indicators.
10. (5) The meaning of the word **Junk (Verb)** as used in the passage is : to get rid of some-thing because it is no longer useful or valuable; discard.
11. (2) F
12. (4) D
13. (5) E
14. (1) B
15. (3) C
16. (1) variables
17. (3) jeopardize
18. (2) reckoning
19. (2) bringing
20. (1) shame
21. (3) Plural subject agrees with plural verb. Hence, **system and need to** should be used.
22. (4) Here, passive voice should be used. Hence, replace **which is yet to take by which is yet to be taken.**
23. (2) Here, **gerund** should be used. Hence, **process of finalising new policy** should be used.
24. (2) Here, '**world's leader manufacturer'** should be replaced by **world's leading manufacturer.** The word **leading** is an Adjective.
25. (1) The word 'per cent' is followed by preposition 'of'. Hence, **over eighty per cent of us** should be used.
26. (3)
27. (1)
28. (3)
29. (5)
30. (3)
31. (2) The pattern of the number series is :
 $13 + 3 = 16$
 $16 + (3 + 3) = 22$
 $22 + (6 + 5) = 33$
 $33 + (11 + 7) = 51$
 $51 + (18 + 9) = \boxed{78}$
32. (3) The pattern of the number series is :
 $39 + 1 \times 13 = 52$
 $52 + 2 \times 13 = 78$
 $78 + 3 \times 13 = 117$
 $117 + 4 \times 13 = 169$
 $169 + 5 \times 13 = \boxed{234}$
33. (2) The pattern of the number series is :
 $62 + 5^2 = 62 + 25 = 87$
 $87 + 10^2 = 87 + 100 = 187$
 $187 + 15^2 = 187 + 225 = 412$
 $412 + 20^2 = 412 + 400 = 812$
 $812 + (25)^2 = 812 + 625 = \boxed{1437}$

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34. (1) The pattern of the number series is :

$$\begin{aligned} 7 + 1^2 &= 8 \\ 8 + 4^2 &= 24 \\ 24 + 9^2 &= 105 \\ 105 + 16^2 &= 361 \\ 361 + 25^2 &= \boxed{986} \end{aligned}$$

35. (1) The pattern of the number series is :

$$\begin{aligned} 656 - 224 &= 432 \\ 432 - 112 &= 320 \\ 320 - 56 &= 264 \\ 264 - 28 &= 236 \\ 236 - 14 &= \boxed{222} \end{aligned}$$

36. (2) Quicker approach

Monthly salary of Raj

$$\frac{1.44 \times 66}{12 \times 100} = \text{Rs. } 0.072 \text{ lakh}$$

$$\therefore \text{Anuj's monthly salary} \times \frac{1}{5}$$

$$= \text{Raj's monthly salary} \times \frac{3}{4}$$

$$\text{Anuj's monthly salary} = \text{Rs.} \left(0.072 \times \frac{3}{4} \times 5 \right) \text{ lakh}$$

$$= \text{Rs. } 27000$$

37. (5) Quicker approach

Present age of Ram's son = x years

$$\therefore \text{Ram's present age} = 3x \text{ years}$$

$$\text{Ram's father's present age} = \frac{15x}{2} \text{ years}$$

$$\therefore x + 3x + \frac{15x}{2} = 46 \times 3$$

$$\Rightarrow 23x = 46 \times 3 \times 2$$

$$\Rightarrow x = 12$$

\therefore Required difference

$$= \frac{15x}{2} - x = \frac{13x}{2}$$

$$= \frac{13 \times 12}{2} = 78 \text{ years}$$

38. (1) Quicker approach

Speed of the bus

$$= \frac{480}{8} = 60 \text{ kmph}$$

\therefore Speed of the train

$$= 60 \times \frac{4}{3} = 80 \text{ kmph}$$

$$\therefore \text{Speed of the car} = \frac{15}{16} \times 80 = 75 \text{ kmph}$$

\therefore Required distance

$$= \text{Speed} \times \text{time} = 75 \times 6 = 450 \text{ km.}$$

39. (2) Quicker approach

If the side of the square be x cm then,

$$\pi \times 35 \times 35 + x^2 = 5450$$

$$\Rightarrow \frac{22}{7} \times 35 \times 35 + x^2 = 5450$$

$$\Rightarrow x^2 = 5450 - 3850 = 1600$$

$$\therefore x = 40 \text{ cm}$$

$$\therefore \text{Required sum} = \pi \times d + 4x$$

$$= \left(\frac{22}{7} \times 70 + 4 \times 40 \right) \text{ cm.} = 380 \text{ cm.}$$

40. (4) Quicker approach

If the largest and the second largest angles be $3x^0$

and $2x^0$, respectively then,

third angle = x

$$\therefore x + 2x + 3x = 180^0$$

$$\Rightarrow x = 30^0$$

\therefore Required sum

$$= x + 2x = 3x = 90^0$$

41. (1) Total number of books = 8 + 7 + 6 = 21

Let E be the event that the picked book is neither in Hindi nor in Urdu or the event that the book picked is in English n(E) = 7

$$\therefore p(E) = \frac{7}{21}$$

42. (3) $x = \frac{5}{3}, \frac{3}{2}$

$$y = \frac{7}{5}, \frac{3}{2}$$

\therefore Clearly $x \geq y$

43. (4) $x = \frac{7}{4}, \frac{8}{3}$

$$y = 2, \frac{7}{4}$$

\therefore Clearly $x \leq y$

44. (1) $x = \frac{-4}{3}, -3$

$$y = -4, -5$$

\therefore Clearly $x > y$

45. (2) $x = \frac{7}{8}, 1$

$$y = 2, \frac{3}{2}$$

\therefore Clearly $x < y$

46. (2) $x = 4$ and $y = 5$

\therefore Clearly $x < y$

47. (1) Total no. of students passed from school A in all the years = 240 + 350 + 360 + 300 + 320 = 1570

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Total no. of students passed from school C in all the years = $200 + 240 + 210 + 250 + 280 = 1180$
The sum of total students passed from A & C is = $1570 + 1180 = 2750$.

48. (2) No. of girls passed from school A in 2007
= $350 \times \frac{3}{7} = 150$

No. of boys passed from school C in 2006
= $200 \times \frac{3}{5} = 120$

Required ratio = $150 : 120 = 5 : 4$

49. (2) No. of boys passed from school D in 2010
= $640 \times \frac{5}{8} = 400$

Total passed students in that year = 640

Required percentage = $\frac{400}{640} \times 100 = 62.5\%$

50. (1) No. of girls passed from school D in 2008
= $450 \times \frac{5}{9} = 250$

No. of girls passed from school B in 2010
= $450 \times \frac{4}{9} = 200$

Required percentage

= $\frac{250 - 200}{200} \times 100 = \frac{50}{200} \times 100 = 25\%$

51 – 55. Number of boys = $\frac{1200 \times 45}{100} = 540$

Number of girls = $1200 - 540 = 660$

Number of girls visiting Mumbai = $\frac{660 \times 30}{100} = 198$

Number of girls visiting Delhi = $660 \times \frac{2}{5} = 264$

Number of girls visiting Jodhpur = $\frac{264}{2} = 132$

Number of girls visiting Kolkatta
= $\frac{2}{3} (660 - 198 - 264 - 132) = 44$

Number of girls visiting Varanasi = 22

Number of boys visiting Mumbai = $300 - 198 = 102$

Number of boys visiting Delhi = $540 \times \frac{1}{5} = 108$

Number of boys visiting Jodhpur = $540 \times \frac{40}{100} = 216$

Number of boys visiting Kolkatta = $\frac{114}{2} = 57$

Number of boys visiting Varanasi = 57

51. (2) Required number of girls = $198 + 264 + 22 = 484$

52. (3) Required percentage = $\frac{216 + 132}{264} \times 100 = 132$

53. (1) Required average = $\frac{57 + 57 + 216}{3} = \frac{330}{3} = 110$

54. (5) Required number of students = $22 + 57 = 79$

55. (1) Required ratio = $44 : 102 = 22 : 51$

56. (2) Reqd.% = $\frac{700 - 500}{500} \times 100 \Rightarrow \frac{200}{500} \times 100 = 40\%$

57. (1) Total export of all three companies in the year 2008 = $600 + 700 + 800 = 2100$
Total export of all three companies in the year 2010 = $400 + 600 + 800 = 1800$
Required ratio = $2100 : 1800 = 7 : 6$

58. (2) 2008 $\rightarrow \frac{200}{1000} \times 100 = 20\%$ (decrease)

2009 $\rightarrow \frac{200}{800} \times 100 = 25\%$ (decrease)

2010 $\rightarrow \frac{200}{600} \times 100 = 33\frac{1}{2}\%$ (decrease)

2011 $\rightarrow \frac{200}{400} \times 100 = 50\%$ (increase)

2012 $\rightarrow \frac{300}{600} \times 100 = 50\%$ (increase)

59. (3) Average = $\frac{800 + 700 + 500 + 800 + 1000 + 700}{6}$

= 750 thousand tones

60. (3) Reqd.% = $\frac{3500 \times 100}{4500} = 77.77\% \approx 78\%$

61. (2) $194 + 228 + x + 422 = 1168$
 $x = 1168 - 844 = 324$

62. (4) $x = \frac{12}{7} \times \frac{90}{13} \times \frac{53}{9} \square 70$

63. (1) $888888 \div 88 \div 8 = x \Rightarrow x = \frac{10101}{8} \approx 1263$

64. (3) $28 \times 29 \times 17 = x$
 $x \approx 13822$

65. (5) $x = \frac{1334}{2.1} \times 6 + 12 \approx 3800$

66. (1) J \div P % H ? T % L

J is son of P

P is mother of H

T is mother of C

Only H is sister of T is satisfy the J is brother of T.

So, in place of ? is x.

67. (2) Only 2 is satisfy the M is the daughter of D.

L is father of R

R is wife of D

D is father of M

M is sister of T.

68. (2) I + T % J \times L \div K

I is father of T

T is mother of J

J is sister of C

L is son of K

From above relation only K is son-in-law of I is true.

69. (4) If Y is son of X is definitely false in only 4.

W \$ X + L + Y + T

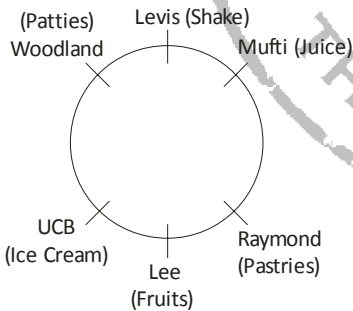
W is wife of X
 X is father of L
 L is father of Y
 Y is father of T
 70. (4) R % T × P ? Q + V.
 R is mother of T
 T is sister of P
 Q is father of V
 T is sister-in-law of Q is possible only.
 P is wife of Q in place of ? is \$.

71. (5) $E < F \leq G = H > S$
 (i) $G > s$ (ii) $F \leq H$
 (i) is true, (ii) is true
 Both (i) and (ii) is true.
72. (1) $P \leq Q < W = L$
 (i) $L > P$ (ii) $Q \leq L$
 (i) is true, (ii) is false
 Only (i) is true

73. (2)
- 1 2 3 4 → 3 2 4 1
 G O N E → N O E G **G**
- 1 2 3 4 → 3 2 4 1
 L O A D → A O D L **L**
- Therefore,
- 1 2 3 4 3 2 4 1
 S O R T → R O T S **S**

74. (4) C O N T R A S T

75. (3) Meaningful Worlds ⇒ REDO, RODE
 76 – 80.

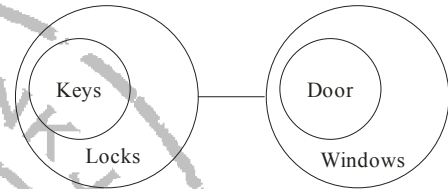


76. (3) N
 77. (4) Raymond
 78. (5) None of these
 79. (1) L – Raymond – Pastries
 80. (4) Woodland
 81 – 85.

	House
1	Yellow Lane
2	Kama Lane
3	Peacock Lane
4	Park Lane
5	Apple Lane
6	Rao Lane
7	Ash Lane
	School

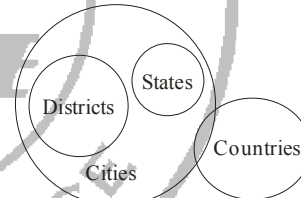
81. (3) Three
 82. (2) Three
 83. (2) Six
 84. (3) Apple Lane
 85. (3) 14 minutes
 86-90. A – Maths – 5
 B – English/Hindi – 7
 C – Marathi – 5
 D – Economics – 6
 E – Civics – 6
 G – English/Hindi – 7
 I – History – 7.

86. (3) 87. (1)
 88. (1) 89. (3)
 90. (2)
 91. (1)



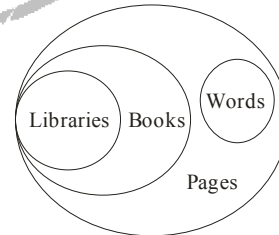
- I. ✓ II. ✗
 Only (I) follows.

92. (4)



- I. ✗ II. ✗
 Neither (I) nor (II) follows.

93. (2)



- I. ✗ II. ✓
 Only (II) follows.

94. (5) Clearly, both the expectations are implicit in the statement.
 95. (2) Only expectation II is implicit in the statement.

- 96 – 100. Govt. → nic
 Proposed → su
 Strong → Ki
 Law → da
 Work → ra

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Corrupt	→	phi
Good	→	mo
System	→	tic
Desire	→	gi
Change	→	zo

96. (2) Su
97. (4) Ki ra gi
98. (3) good
99. (3) govt law corrupt
100. (3) da su mo ye

