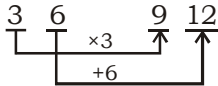


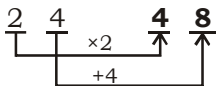
SSC (GD)MOCK TEST – 8 (SOLUTION)

1. (C) Second colour is obtained by the combination of other two colours.

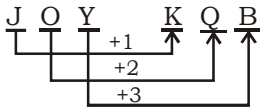
2. (B) As,



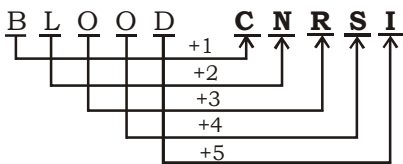
Similarly,



3. (A) As,



Similarly,

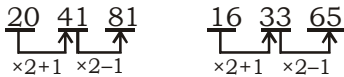
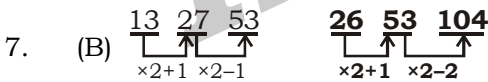
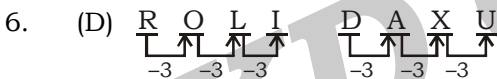


4. (D) As, $729 + 7 + 2 + 9 = 747$

Similarly,

$841 + 8 + 4 + 1 = 854$

5. (C) Except **Andhra Pradesh**, the tropic of cancer is passes through the all other states.



8. (A) As, $\frac{80 \times 75}{100} = 60$

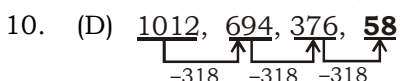
and, $\frac{70 \times 60}{100} = 42$

Similarly, $\frac{125 \times 80}{100} = 100$

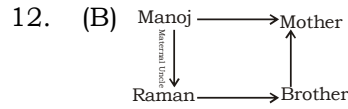
9. (B) As, $(3)^3 - (4)^2 = 11$

And, $(5)^3 - (6)^2 = 89$

Similarly, $(6)^3 - (7)^2 = 167$



11. (D) Sohan birthday will be on 8 or 9.



13. (B) As, $\frac{35}{1+6} = 5$

and, $\frac{48}{2+6} = 6$

similarly, $\frac{54}{2+7} = 6$

14. (A) ATQ,

$\frac{11x - 15}{13x - 15} = \frac{17}{21}$

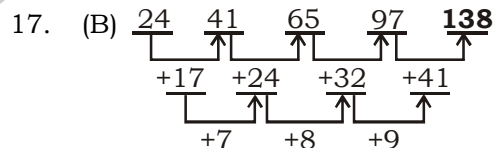
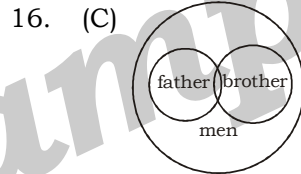
$\Rightarrow 231x - 315 = 221x - 255$

$\Rightarrow 10x = 60$

$\Rightarrow x = 6$

\therefore Age of Rahul = $11 \times 6 = 66$ Years

15. (D)



18. (C) $8 \times 4 - 10 = 22$

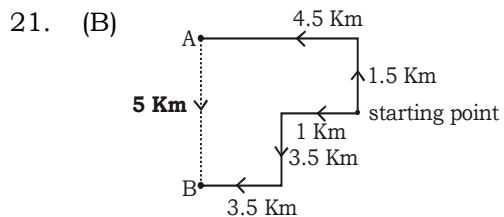
$12 \times 4 - 10 = 38$

$14 \times 4 - 10 = 46 \neq 48$

$9 \times 4 - 10 = 26$

19. (D)

20. (B)



Hence B is 5 Km South of A.

22. (B) $5 > 3 \times 2 - 4 > 5 < 3$

After changing the signs,

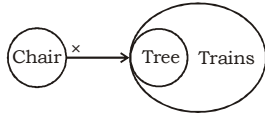
$5 \times 3 + 2 = 4 \times 5 - 3$

$\Rightarrow 17 = 17$

23. (A) Total number of rectangles = 9

24. (C) Required number = $\frac{400}{4} - 3 = 97$

25. (C)



I. ✓

II. ✓

Hence, both conclusions are follow.

51. (A) Sales tax = $\frac{120}{5} = ₹ 24$

Remaining amount = $(120 - 24) = ₹ 96$

Profit = $96 \times \frac{1}{3} = ₹ 32$

Cost Price = $(96 - 32) = ₹ 64$

52. (A) $12.5\% = \frac{1}{8}$, $8\% = \frac{2}{25}$

	Old	New
Wages →	8	9
Hours	25	23
Weekly wages →	200	207

↖ +7 ↗

Percentage change in the weekly wages

$$= \frac{7}{200} \times 100 = 3.5$$

Hence, increases by 3.5%

53. (A) Let the number of water taps = x
∴ The number of outlet taps = $(12 - x)$
According to the questions

$$\Rightarrow \frac{x}{6} - \frac{(12 - x)}{12} = \frac{1}{4}$$

$$\Rightarrow \frac{2x - 12 + x}{12} = \frac{1}{4}$$

$$\Rightarrow 3x - 12 = 3$$

$$\Rightarrow 3x = 15$$

$$\Rightarrow x = 5$$

54. (A) Let the annual rate = $R\%$

$$\text{Then, } \frac{400 \times 2 \times R}{100} + \frac{450 \times 4 \times R}{100} + \frac{1200 \times 6 \times R}{100}$$

$$= ₹ 1020$$

$$\Rightarrow 8R + 22R + 72R = ₹ 1020$$

$$\Rightarrow 102R = 1020$$

$$\Rightarrow R = \frac{1020}{102} = 10\%$$

55. (C) Ratio of work of M : W : C = $\frac{1}{3} + \frac{1}{4} + \frac{1}{5}$

$$= 20 : 15 : 12$$

Let the required days be D .

$$\text{Required days} = (1M + 1W + 1C) \times D = 3M \times 47$$

$$\Rightarrow (20 + 15 + 12) \times D = 3 \times 20 \times 47$$

$$D = \frac{3 \times 20 \times 47}{47} = 60 \text{ days}$$

56. (C) Let the original fraction be $\frac{a}{b}$

$$\frac{a^2 \times \frac{5}{4}}{b^2 \frac{4}{5}} = \frac{5}{8} \times \frac{a}{b}$$

$$\Rightarrow \left(\frac{a}{b}\right)^2 \times \frac{25}{16} = \frac{5}{8} \times \left(\frac{a}{b}\right)$$

$$\Rightarrow \left(\frac{a}{b}\right) = \frac{2}{5}$$

$$\Rightarrow a \times b = 2 \times 5 = 10$$

57. (A) ← d km →



Car 1 → 10 km/h

Car 2 → 8 km/h + 8.5 km/h + 9 km/h.....

Ist hour IInd hour +

$$10t = \frac{t}{2} \left[2 \times 8 + (t-1) \frac{1}{2} \right]$$

$$20 = 16 + \frac{t-1}{2}$$

$$t - 1 = 8 \Rightarrow t = 9 \text{ hours}$$

Distance travelled by Ist car in 9 hours = $9 \times 10 = 90$ kms.

58. (A) Let the distance be x km.
ATQ,

$$\frac{x}{6-1.2} + \frac{x}{6+1.2} = 1$$

$$\Rightarrow x \left(\frac{7.2+4.8}{4.8 \times 7.2} \right) = 1$$

$$\Rightarrow x = \frac{4.8 \times 7.2}{12.0} \text{ km}$$

$$= 4.8 \times .6 \text{ km}$$

$$= 2.88 \text{ km}$$

59. (B) Let the length of each of the equal side of the ground be x metre

Base of the play ground = 24 m

$$\therefore \text{Area of ground} = \frac{15}{25} \times 100 = 60 \text{ m}^2$$

But the ground has isosceles shape

$$\therefore \text{Area of ground} = \frac{a}{4} \sqrt{4x^2 - a^2}$$

[where a = base, x = each of the equal sides]

$$\therefore \frac{24}{4} \sqrt{4x^2 - (24)^2} = 60$$

$$\Rightarrow 4x - (24)^2 = (10)^2$$

$$\Rightarrow 4x^2 - 576 = 100$$

$$\Rightarrow 4x^2 - 676 = 100$$

$$\Rightarrow x^2 = \frac{676}{4} = 169$$

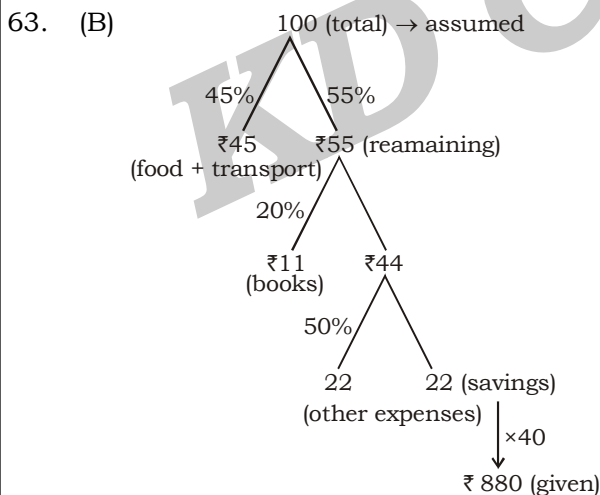
$$\Rightarrow x = 13$$

∴ Length of each of the equal side = 13m

60. (A) Let the original no. be x
 ATQ,
 $7.2 \times x - 0.72 \times x = 2592$
 $\Rightarrow x(7.2 - 0.72) = 2592$
 $\Rightarrow x \times 6.48 = 2592$
 $\Rightarrow x = \frac{2592}{6.48}$
 $\therefore x = \frac{2592 \times 100}{648} = 400$

61. (A) ATQ,
 $x = 22 + 8\sqrt{6}$
 \downarrow
 $2ab$
 $2 \times 4 \times \sqrt{6}$
 $\Rightarrow x = (4 + \sqrt{6})^2 \Rightarrow \sqrt{x} = 4 + \sqrt{6}$

62. (B) Let outer radii = R_1 and inner radii = R_2
 $\therefore 2\pi h R_1 - 2\pi R_2 h = 44$
 $\Rightarrow 2 \times \frac{22}{7} \times 14 [R_1 - R_2] = 44$
 $\Rightarrow R_1 - R_2 = \frac{1}{2} = 0.5 \dots\dots(i)$
 and, $\pi (R_1^2 - R_2^2) \times h = 99$ (Given)
 $\Rightarrow 4 \times 0.5 (R_1 + R_2) (R_1 - R_2) \times 14 = 99$
 $\Rightarrow 4 \times 0.5 (R_1 + R_2) = 9$
 $R_1 + R_2 = 4.5 \dots\dots(ii)$
 On adding (i) and (ii)
 $2R_1 = 5$
 $\Rightarrow R_1 = 2.5 \text{ cm}$



$\Rightarrow \text{Income} = 100 \times 40 = ₹4000$

64. (B) Let rate = $R\%$, then time = R years
 ATQ,
 $80,000 = \frac{5,00,000 \times R \times R}{100}$
 $\Rightarrow R^2 = 16$
 $\Rightarrow R = 4\%$

65. (C) Required run rate = $\left(\frac{300 - (2.5 \times 15)}{35} \right)$
 $= \frac{262.5}{35} = 7.5$

66. (A) Let the numbers are a and b
 $\therefore b^3 - a^2 = b^2 \Rightarrow b^3 = a^2 + b^2$
 $ab = 300$ and $(a + b)^2 = 1600$
 $\Rightarrow a^2 + b^2 + 2ab = 1600$
 $\Rightarrow b^3 + 2 \times 300 = 1600$
 $\Rightarrow b^3 = 1600 - 600 = 1000 \Rightarrow b = 10$
 $\Rightarrow ab = 300 \Rightarrow a \times 10 = 300 \Rightarrow a = 30$
 $\Rightarrow \text{Numbers } a, b = 30, 10$

67. (D) Average of 48 numbers = 0
 $\Rightarrow \text{Sum of 48 numbers} = 0 \times 48 = 0$
 It is quite possible that 47 of these numbers may be positive and if their sum is R then 48th numbers is $(-R)$

68. (A) ATQ,
 $\frac{(n-2) \times 180}{n} = 2 \times 90^\circ \times \frac{4}{5}$
 $\Rightarrow \frac{180n - 360}{n} = 144$
 $\Rightarrow 36n = 360$
 $\Rightarrow n = 10$
 $\Rightarrow \text{Number of sides} = 10$

69. (B) Required average speed
 $= \frac{2x + 3x + 5x}{\frac{2x}{10} + \frac{3x}{15} + \frac{5x}{20}} \times \frac{10x}{39x} \times 60$
 $= 15 \frac{5}{13} = \text{km/hr}$

70. (C) ATQ,

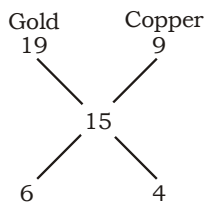
 Required number of poles
 $= \frac{45 \times 4 \times 1000}{50} + 1$
 $= 3601$

71. (C) Number old terms between 1 to 99
 $= \frac{99+1}{2} = 50$
 $\therefore \text{Required sum} = 50^2 = 2500$

72. (B) A.T.Q.,

 $\therefore C \text{ gets} = \frac{320000}{8} = ₹ 40000$

73. (B) ATQ,



∴ Gold : Copper = 3 : 2

74. (A) ATQ,

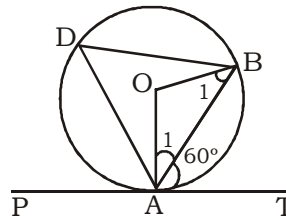
$$\left[\left\{ \sqrt{\left(\sqrt{5}\right)^{\frac{1}{2}}} \right\}^{\frac{3}{8}} \right]^{32} - \left[\left\{ \sqrt{\left(\sqrt{5}\right)^{\frac{1}{8}}} \right\}^{\frac{1}{2}} \right]^{16}$$

$$= \left[\left\{ 5^{\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}} \right\}^{\frac{3}{8}} \right]^{32} - \left[5^{\frac{1}{8} \times \frac{1}{2} \times \frac{1}{2}} \right]^{16}$$

$$= \left[5^{\frac{1}{8} \times \frac{3}{8} \times 32} \right] - \left[5^{\frac{1}{8} \times 16} \right]$$

$$= 5^{\frac{3}{2}} - 5^{\frac{1}{2}} = 5\sqrt{5} - \sqrt{5} = 4\sqrt{5}$$

75. (C)



$\angle ADB = \angle BAT = 60^\circ$ (angles in alternative segment)

and, $\angle AOB = 2 \times 60^\circ = 120^\circ$

Now, In $\triangle AOB$

$$2\angle BAO + 120^\circ = 180^\circ$$

$$\Rightarrow 2\angle BAO = 60^\circ$$

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Note:- If you face any problem regarding result or marks scored, please contact 9313111777

- | | |
|--|--|
| 76. (C) Laid up – ill (in bed).
Laid down – to give up | the past indefinite is formed in past perfect tense. |
| 77. (C) Replace 'we' with 'it' as subject is Indian cricket team. | 99. (A) Verbs 'make' and 'let' follow [verb + object + infinitive (without 'to')] structure. |
| 78. (C) Replace 'a' with 'the'. The superlative degree of adjective is defined by article 'the'. | 100.(A) You cannot use singular countable nouns alone. |
| 98. (A) Previous statement is in past indefinite tense and the action taken place before | |

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Scuttle	Destroy, wreck	तबाह कर देना
Stifle	to withhold from circulation	दाब रखना
Soothing	having a gently calming effect	शांतिदायक
Fizz	move with or display excitement	आक्रामक रूख
Ratting	make a series of knocking sounds	कोलाहलमय
Razzing	tease (someone) playfully	तंग करना
Rationale	reasons or logical basis of course of action and belief	तर्काधार
Ribald	referring to sexual matters in an amusingly rude manner	नीच, अभिष्ट
Festal	relating to or characteristic of festival	उत्सव संबंधी
Bucolic	relating to the pleasant aspects of countryside	ग्राम्य
Seamy	sordid and disreputable	सीवनदार
Alight	to come down from something	नीचे उतरना
Embark	to make a start	शुरूआत करना
Eternity	infinite or unending time	अनंतकाल
Descent	act of moving downward	अवरोहण
Insular	ignorant of cultures, ideas	संकुचित विचार का
Cosmopolitan	found all over the world	सर्वदेशीय
Impromptu	done without planned or rehearsed	बिना पहले सोचे हुए
Boutonniere	a spray of flowers worn in buttonhole	बुटोनिनिर
Roulette	a gambling game	एक प्रकार का खेल
Macerate	softer by soaking in liquid	द्रवनिवेशन करना
Licentious	promiscuous and unprincipled in sexual matters	अनैतिक
Extaiate	free from a constraint or difficulty	मुक्त कर देना
Coprolalia	use of obscene language	गंदी भाषा का प्रयोग करना
Dovetail	fit or cause to fit together easily and conveniently	सामंजस्य स्थापित करना
Dawdle	waste time	समय नष्ट करना
Wayward	following no clear principle or law	मनमौजी
Entourage	a group of people attending or surrounding an important person	प्रतिवेश, घेरा

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SSC (GD) MOCK TEST - 08 (ANSWER KEY)

Answer key

1. (C)	11. (D)	21. (B)	31. (C)	41. (A)	51. (A)	61. (A)	71. (C)
2. (B)	12. (B)	22. (B)	32. (C)	42. (B)	52. (A)	62. (B)	72. (B)
3. (A)	13. (B)	23. (A)	33. (C)	43. (C)	53. (A)	63. (B)	73. (B)
4. (D)	14. (A)	24. (C)	34. (D)	44. (D)	54. (A)	64. (B)	74. (A)
5. (C)	15. (D)	25. (C)	35. (A)	45. (A)	55. (C)	65. (C)	75. (C)
6. (D)	16. (C)	26. (A)	36. (C)	46. (D)	56. (C)	66. (A)	76. (C)
7. (B)	17. (B)	27. (B)	37. (C)	47. (A)	57. (A)	67. (D)	
8. (A)	18. (C)	28. (A)	38. (D)	48. (B)	58. (A)	68. (A)	
9. (B)	19. (D)	29. (B)	39. (A)	49. (B)	59. (B)	69. (B)	
10. (D)	20. (B)	30. (A)	40. (D)	50. (A)	60. (A)	70. (C)	

Hindi

English

76. (A)	85. (B)	94. (C)	77. (C)	86. (B)	95. (C)
77. (A)	86. (B)	95. (D)	78. (C)	87. (A)	96. (B)
78. (C)	87. (B)	96. (D)	79. (B)	88. (B)	97. (C)
79. (C)	88. (B)	97. (D)	80. (A)	89. (A)	98. (A)
80. (A)	89. (D)	98. (C)	81. (D)	90. (B)	99. (A)
81. (A)	90. (D)	99. (B)	82. (D)	91. (B)	100. (A)
82. (D)	91. (B)	100. (A)	83. (D)	92. (B)	
83. (D)	92. (B)		84. (B)	93. (D)	
84. (A)	93. (C)		85. (B)	94. (A)	

