

DMRC CRA Memory Based Mock-1

S1.Ans(c)

Sol.

FLOOR	PERSON	SHIRT COLOUR
PCCF	A	Nagpur
APCCF	C	Bangalore
CCF	F	Mathura
OCF	B	Jaipur
CF	D	Gurgaon
DCF	G	Dispur
PO	E	Noida

S2.Ans(b)

Sol.

FLOOR	PERSON	SHIRT COLOUR
PCCF	A	Nagpur
APCCF	C	Bangalore
CCF	F	Mathura
OCF	B	Jaipur
CF	D	Gurgaon
DCF	G	Dispur
PO	E	Noida

S3.Ans(d)

Sol.

FLOOR	PERSON	SHIRT COLOUR
PCCF	A	Nagpur
APCCF	C	Bangalore
CCF	F	Mathura
OCF	B	Jaipur
CF	D	Gurgaon
DCF	G	Dispur
PO	E	Noida

S4.Ans(a)

Sol.

FLOOR	PERSON	SHIRT COLOUR
PCCF	A	Nagpur
APCCF	C	Bangalore
CCF	F	Mathura
OCF	B	Jaipur
CF	D	Gurgaon
DCF	G	Dispur
PO	E	Noida

S5.Ans(a)

Sol.

FLOOR	PERSON	SHIRT COLOUR
PCCF	A	Nagpur
APCCF	C	Bangalore
CCF	F	Mathura
OCF	B	Jaipur
CF	D	Gurgaon
DCF	G	Dispur
PO	E	Noida

S6. Ans.(c)

Sol. except (c), All option is divisible by one-another.

S7. Ans.(a)

Sol. Difference between denominator and numerator is in increasing +5,+6,+7,+8

S8. Ans(b)

Sol. (-1) pattern follow

S9. Ans(c)

$$AT = 1+20 = 21$$

Same as

$$XT = 24+20 = 44$$

S10. Ans(c)

Sol. Except (c), both come in same group.

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S11.Ans(B)

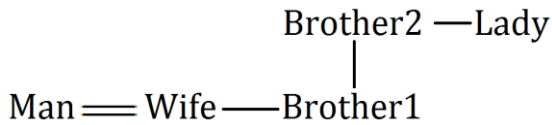
Sol. -1, +1 SERIES

S12.Ans(c)

Sol.

S13.Ans(D)

Sol.

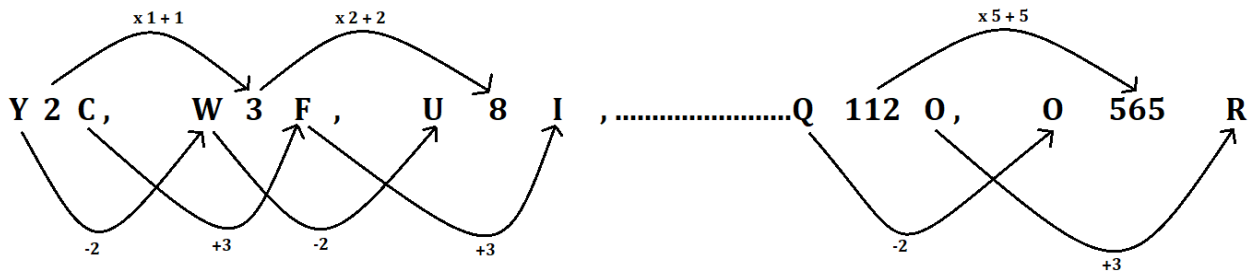


S14.Ans(A)

Sol. BCD , CDEF , DEFGH , EFGHIJ

S15.Ans(A)

Sol.



S16.Ans(C)

Sol.

1²- 1 , 3²- 3 , 5²- 5 ,11²- 11

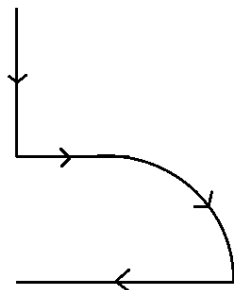


S17.Ans(A)

Sol. SQUARE SERIES

S18.Ans(a)

Sol.



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S19.Ans(d)

Sol.

S20.Ans(c)

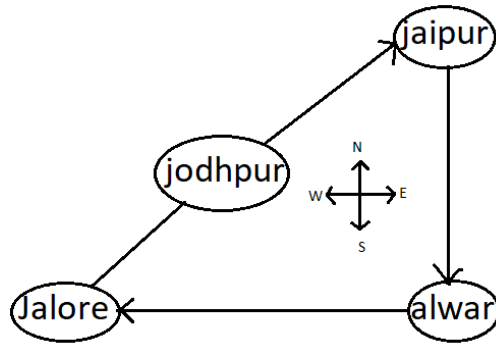
Sol. Sum of numbers in each column is 200

S21.Ans(d)

Sol.

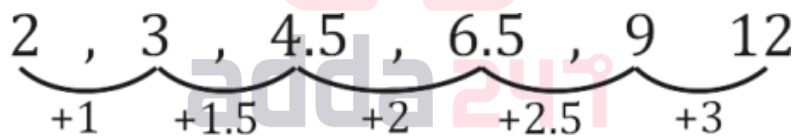
S22.Ans(D)

Sol.



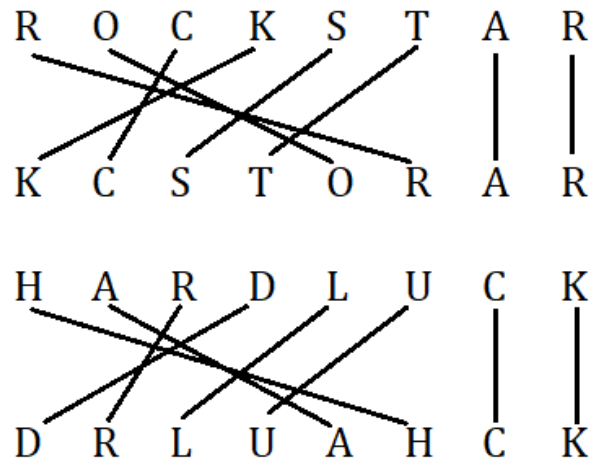
S23. Ans.(c)

Sol.



S24. Ans.(a)

Sol.



S25. Ans.(b)

SOL.

First figure

$$(6 \times 5) + (3 \times 3) = 30 + 9 \\ = 39$$

Second Figure

$$(7 \times 5) + (4 \times 4) = 35 + 16 \\ = 51$$

Third Figure

$$(5 \times 5) + (3 \times 4) = 25 + 12 \\ = 37$$

S26. Ans.(c)

SOL.

Proceed clockwise

$$9 + 3 = 12$$

$$12 + (3 \times 2) = 18$$

$$18 + (6 \times 2) = 30$$

$$30 + (12 \times 2) = 54$$

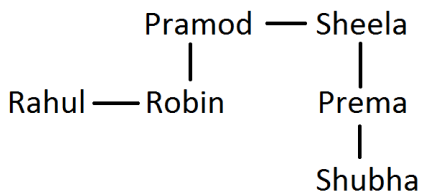
$$54 + (24 \times 2) = 102$$

S27. Ans.(c)

Sol. Difference of 3 and 6 in given set; then the difference of 4 and 8 is in the right option

S28. Ans.(c)

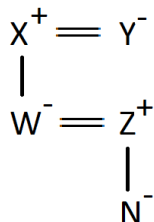
Sol.



According to Family chart Rahul is the uncle of Shubha.

S29. Ans.(d)

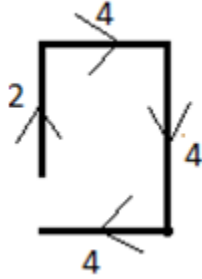
Sol.



According to family diagram N is the granddaughter of Y.

S30. Ans.(d)

Sol. so direction is west.



S31. Ans.(b)

S32. Ans.(a)

S33. Ans.(c)

S34. Ans.(b)

S35. Ans.(d)

S36. Ans.(d)

S37. Ans.(c)

S38. Ans.(c)

S39. Ans.(c)

S40. Ans.(a)

S41. Ans.(a)

S42. Ans.(a)

S43. Ans.(c)

S44. Ans.(a)

S45. Ans.(b)

S46. Ans.(d)

S47. Ans.(a)

S48. Ans.(b)

S49. Ans.(b)

S50. Ans.(a)

S51. Ans.(c)

S52. Ans.(d)

S53. Ans.(c)

S54. Ans.(c)

S55. Ans(d)

S56. Ans(c)

S57. Ans(b)

S58. Ans(b)

S59. Ans.(a)

S60. Ans.(b)

S61. Ans.(c)



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Questions

15 Full Length Mocks

- S62. Ans.(b)
S63. Ans.(a)
S64. Ans.(a)
S65. Ans.(d)
S66. Ans.(c)
S67. Ans.(c)
S68. Ans.(b)
S69. Ans.(d)
S70. Ans.(c)
S71. Ans.(b)
S72. Ans.(c)
S73. Ans.(c)
S74. Ans.(c)
S75. Ans.(b)
S76. Ans.(c)
S77. Ans.(a)
S78. Ans.(a)
S79. Ans.(c)
S80. Ans.(a)
S81. Ans.(a)
S82. Ans.(b)
S83. Ans.(a)
S84. Ans.(b)
S85. Ans.(b)
S86. Ans.(a)
S87. Ans.(b)
S88. Ans.(a)
S89. Ans.(c)
S90. Ans.(b)



S91. Ans.(b)

Sol. HCF of (1517, 902) = 41 cm

$$\text{Required tiles} = \frac{1517 \times 902}{41 \times 41} = 814$$

S92. Ans.(b)

Sol.

$$\frac{8 \times 4 \times 100 \times 100}{25 \times 20} = 8 \times 4 \times 4 \times 5$$

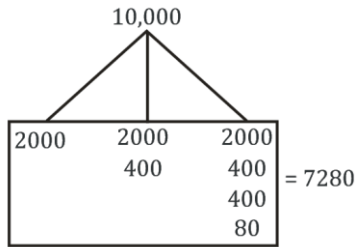
= 640 tiles

S93. Ans.(b)

Sol. P = 10,000

R = $2 \times 10\% = 20\%$ for 2 year compounded

t = 3 years.



S94. Ans.(c)

Sol.

Water : Milk

$$A \rightarrow 2_{\times 2} : 3_{\times 2} = 5_{\times 2}$$

$$B \rightarrow 3 : 7 = 10$$

$$7 : 13$$

S95. Ans.(b)

Sol. $\sin 2A = 2\sin A \cdot \cos A$

S96. Ans.(a)

Sol. $\tan \pi = 0$

S97. Ans.(b)

Sol. 1 dozen _____ Rs. 25

40 dozens _____ $25 \times 40 =$ Rs. 1000

$$SP \rightarrow 1000 \times \frac{6}{5} = \text{Rs. } 1200$$

8 dozen banana got rotten

32 dozen _____ 1200

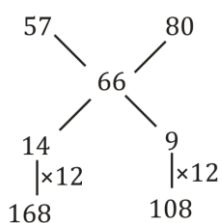
$$1 \text{ dozen } \frac{1200}{32} = \text{Rs. } 37.5$$

S98. Ans.(a)

$$\text{Sol. } 16\frac{2}{3}\% = \frac{1}{6}$$

$$7 \frac{\quad}{77}$$

$$6 \frac{\quad}{66}$$



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S99. Ans.(d)

Sol.

Time taken to fill the tank.

$$= \frac{40 \times 60}{60 - 40} = 120 \text{ min.}$$

S100. Ans.(c)

Sol.

$$\text{A.T.Q., } x + \frac{x}{3} + \frac{5x}{2} = 46 \times 3$$

$$x = 36 \text{ year}$$

$$\text{Req. diff.} = 90 - 12 = 78 \text{ year.}$$

S101. Ans.(d)

Sol.

Multiplied by 2^3 in whole expression

$$2^3(1^3 + 2^3 + 3^3 + \dots + 10^3) = 2^3 \times 3025 = 24200$$

S102. Ans.(b)

Sol.

$$\frac{2.4 \times 10^3}{8 \times 10^{-2}} = \frac{2.4}{8} \times 10^5 = 3 \times 10^4$$



S103. Ans.(c)

Sol.

$$\sqrt{\frac{(0.75)^3 + 1^3 - (0.75)^3}{0.25}} = \sqrt{\frac{1}{0.25}} = 2$$

S104. Ans. (b)

Sol.

For managing, A received = 5% of Rs. 7400 = Rs. 370.

Balance = Rs. (7400 - 370) = Rs. 7030.

Ratio of their investments = (6500x6):(8400x5):(10000x3)

$$= 39000 : 42000 : 30000$$

$$= 13 : 14 : 10$$

$$\text{B's share} = \text{Rs. } 7030 \times \frac{14}{37}$$

$$= \text{Rs. } 2660.$$

S105. Ans. (c);

Sol. Let V is the speed of swimmer

And U is the speed of current

$$3(V-U) = (V+U) \Rightarrow V = 2U$$

$$U = V/2 = 6/2 = 3\text{kmph}$$

S106. Ans. (d)

Sol.

$$\text{Total Annual income} = 11x.S + x.T$$

$$\text{Avg. Annual Income} = \frac{11S+T}{12}$$

$$\text{Avg. monthly income} = \frac{11S+T}{12 \times 12} = \frac{11S+T}{144}$$

S107. Ans. (b)

Sol.

$$\text{Speed} = \frac{1200m}{72sec} \times \frac{18}{5} = 60 \text{ km/h.}$$

S108. Ans. (d)

Sol.

$$\text{Time taken by the Dolphin downstream} = \frac{68}{13+4}$$
$$= 4 \text{ hours}$$

S109. Ans. (c)

Sol.

$$\text{Audi-1} + \text{Audi-2} + \text{Audi-3} + \text{Audi-4} = 48 \times 4 = 192^\circ\text{C}$$

$$\text{Audi-2} + \text{Audi-3} + \text{Audi-4} + \text{Audi-5} = 52 \times 4 = 208^\circ\text{C}$$

$$\text{Audi-1} - \text{Audi-5} = -16^\circ\text{C}$$

$$\text{Audi-5} = 42 + 16 = 58^\circ\text{C}$$

S110. Ans. (c)

Sol.

Let third no. x, second is 3x and first no. is

$$3x \times 2 = 6x$$

$$\Rightarrow x + 3x + 6x = 100 \times 3$$

$$X = 30 \rightarrow \text{So, } 6x = 180$$

S111. Ans. (b)

Sol.

Present age of Deepika = 5 year.

Present age of Ranveer = 20 years.

S112. Ans. (b)

Sol. The square root of a 'positive' no. is always positive.

S113. Ans. (b)

Sol.

$$e = \frac{1}{\sin\theta} - \sin\theta$$

$$e = \frac{1 - \sin^2\theta}{\sin\theta} = \frac{\cos^2\theta}{\sin\theta}$$

Similarly,

$$f = \frac{\sin^2\theta}{\cos\theta}$$

$$(ef)^2 = \left(\frac{\cos^2\theta}{\sin\theta} \cdot \frac{\sin^2\theta}{\cos\theta} \right)^2 = \sin^2\theta \cos^2\theta$$

$$e^2 + f^2 = \frac{\cos^4\theta}{\sin^2\theta} + \frac{\sin^4\theta}{\cos^2\theta}$$

$$= \frac{\cos^6\theta + \sin^6\theta}{\sin^2\theta \cos^2\theta}$$

$$= \frac{1 - 3\sin^2\theta \cos^2\theta}{\sin^2\theta \cos^2\theta}$$

$$e^2 + f^2 = \frac{1}{\sin^2\theta \cos^2\theta} - 3$$

Put all the values

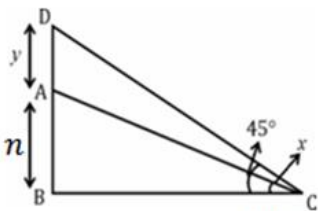
$$= \sin^2\theta \cos^2\theta \left(\frac{1}{\sin^2\theta \cos^2\theta} - 3 + 3 \right) = 1$$

After solving this, we get value of $e^2 f^2 (e^2 + f^2 + 3) = 1$

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S114. Ans. (b);

Sol.



$$\Delta BCD, \tan 45^\circ = \frac{BD}{BC} = 1$$

$$1 = \frac{n+y}{BC} \Rightarrow BC = n + y \dots\dots\dots(i)$$

From ΔABC ,

$$\tan x = \frac{AB}{BC} \Rightarrow \tan x = \frac{n}{BC}$$

$$BC = n \cdot \cot x \dots\dots\dots(ii)$$

From (i) and (ii)

$$n + y = n \cdot \cot x$$

$$y = (n \cot x - n) \text{ meter}$$

S115. Ans.(b)

Sol.

$$x + \frac{1}{x} = 1$$

$$x^2 + 1 = x$$

$$x^2 - x + 1 = 0$$

$$(x + 1)(x^2 - x + 1) = 0$$

$$x^3 + 1 = 0$$

$$x^3 = -1$$

$$P = x(x^3)^{1333} + \frac{1}{x(x^3)^{1333}}$$

$$P = -x - \frac{1}{x}$$

$$P = -1$$

$$F(n) = 2^{2n} + 1$$

When $n = 2$

$$F(n) = 17$$

$$q = 7$$

$$P + q = 7 - 1 = 6$$

S116. Ans. (a);

$$87\frac{1}{2} \times 70 \times x = 2940$$

Sol. $X = 4800$

S117. Ans. (b);

From the Question, $\frac{7x}{5x+15} = \frac{7}{8}$

$$X = 5$$

So, the total amount of water in the new mixture.

Sol. $= 5 \times 5 + 15 = 40$ litres

S118. Ans. (a);

Sol.

$$(150 + l_2) = (50 + 58) \times \frac{5}{18} \times 7$$

$$l_2 = 60 \text{ m}$$

S119. Ans. (d);

Sol.

$$3(x + 3) - 3(x - 3) \Rightarrow \text{Present age} = 18 \text{ year.}$$

S120. Ans. (a);

Sol. $6435 + 6927 + 7230 + 6855 + 6562 + X = 6500 \times 6$

$$X = 39000 - 34009$$

$$X = 4991$$



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