

SBI Clerk Prelims 2020 Memory Based Question Papers (Solutions)

S31. Ans.(d)

Sol. Required average = $\frac{450+420+450}{3}$
= 440

S32. Ans.(a)

Sol. Total male participated from school – B & D together = 540 + 560 = 1100
Total female participated from school – A & C together = 450 + 500 = 950
Required difference = 1100 – 950 = 150

S33. Ans.(d)

Sol. Total male participated from school – B & C together = 540 + 720 = 1260
Total female participated from school – A & D together = 450 + 450 = 900
Required % = $\frac{1260-900}{900} \times 100 = 40\%$

S34. Ans.(b)

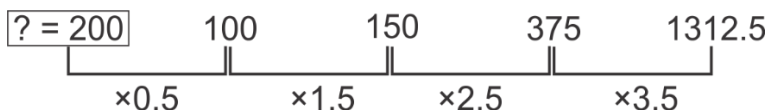
Sol. Total students participated from school F = $\frac{140}{100} \times 650 + 420 \times \frac{32}{21}$
= 910 + 640 = 1550

S35. Ans.(b)

Sol. Total number of male students participated from all the five schools
= (650 + 540 + 720 + 560 + 680) = 3150

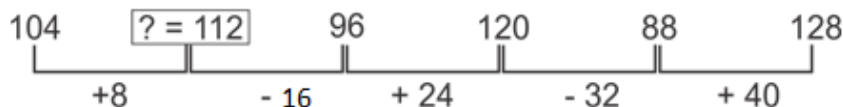
S36. Ans.(b)

Sol. Pattern of series -



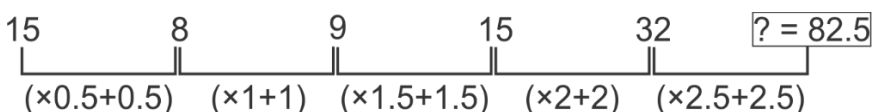
S37. Ans.(a)

Sol. Pattern of series -



S38. Ans.(d)

Sol. Pattern of series -



**SBI CLERK
PRELIMS**

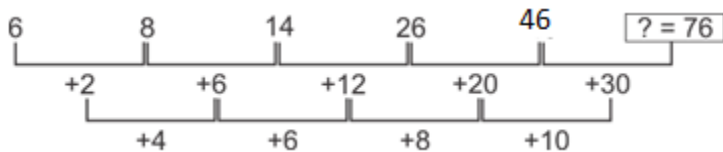
Memory Based Package

- ◆ Based on Papers of 22nd Feb 2020
- ◆ (1+2) Full Length Mocks

Bilingual

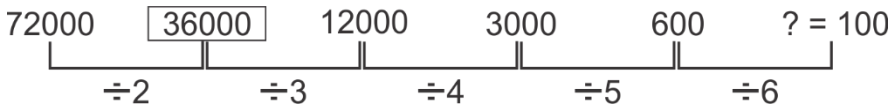
S39. Ans.(e)

Sol. Pattern of series -



S40. Ans.(e)

Sol. Pattern of series -



S41. Ans.(d)

Sol. let total work be 360 units

$$\text{Efficiency of 1 man} = \frac{360}{12 \times 10} = 3 \text{ units/day}$$

$$\text{Efficiency of 1 woman} = \frac{360}{10 \times 18} = 2 \text{ units/day}$$

$$\text{Required time} = \frac{360}{4 \times 3 + 6 \times 2} = 15 \text{ days}$$

S42. Ans.(a)

Sol. distance = 240 kms

$$\text{Required speed} = \frac{240}{2.5} = 96 \text{ kmph}$$

$$\text{Required \%} = \frac{96-60}{60} \times 100 = 60\%$$

S43. Ans.(b)

Sol. Let 10 years ago, ages of Ram and Rahim were x years and $3x$ years, respectively.

Then, present age of Ram = $(x + 10)$

and present age of Rahim = $(3x + 10)$

According to the question,

$$\frac{x+10+5}{3x+10+5} = \frac{2}{3}$$

$$\Rightarrow 3x + 45 = 6x + 30$$

$$\Rightarrow 3x = 15$$

$$\therefore x = 5$$

$$\text{Hence, required ratio} = \frac{5+10}{3 \times 5 + 10}$$

$$= \frac{15}{25} = 3 : 5$$

S44. Ans.(b)

$$\text{Sol. required time} = \frac{140+120}{(132-80) \times \frac{5}{18}}$$

$$= \frac{260 \times 18}{52 \times 5} = 18 \text{ sec}$$



S45. Ans.(c)**Sol.** let CP of book be Rs x

SP = Rs 1.2x

New CP = Rs 0.9x

New SP = Rs 1.2x + 90

ATQ, $0.9x \times \frac{140}{100} = 1.2x + 90$

$1.26x = 1.2x + 90$

x = Rs 1500

S46. Ans.(a)

Sol. I. x = 5

II. y = 5

So, x=y

S47. Ans.(d)

Sol. I. $x^2 + 7x - 5x - 35 = 0$

$x(x + 7) - 5(x + 7) = 0$

$(x + 7)(x - 5) = 0$

x = -7, 5

II. $y^2 + 7y + 8y + 56 = 0$

$y(y + 7) + 8(y + 7) = 0$

$(y + 7)(y + 8) = 0$

y = -8, -7

So, x > y

S48. Ans.(a)

Sol. I. x = ± 9

II. y = ± 8

So, no relation can be established

S49. Ans.(a)

Sol. I. $17x^2 - 14x - 3 = 0$

$17x^2 - 17x + 3x - 3 = 0$

$17x(x - 1) + 3(x - 1) = 0$

$(17x + 3)(x - 1) = 0$

x = $-\frac{3}{17}$, 1

II. $y^2 - 2y - 35 = 0$

$y^2 - 7y + 5y - 35 = 0$

$y(y - 7) + 5(y - 7) = 0$

y = 7, -5

So, no relation can be established

BILINGUAL



**MEMORY BASED
MOCK DISCUSSION
(3 Mocks)**

SBI CLERK PRELIMS
Starts February 22, 2020

5 PM To 8 PM



S50. Ans.(e)

Sol. I. $x^2 + 9x - 5x - 45 = 0$

$x(x + 9) - 5(x + 9) = 0$

$(x - 5)(x + 9) = 0$

$x = 5, -9$

II. $y^2 - 5y - 8y + 40 = 0$

$y(y - 5) - 8(y - 5) = 0$

$(y - 5)(y - 8) = 0$

$y = 5, 8$

So, $x \leq y$

S51. Ans.(e)**Sol.** let initial quantity of milk & water be $5x$ & $3x$ lit respectively

ATQ, $\frac{5x+8}{3x} = \frac{11}{5}$

$25x + 40 = 33x \Rightarrow x = 5$

required difference = $5x - 3x = 2x = 10$ lit**S52. Ans.(a)****Sol.** let rate of interest be $R\%$

ATQ, $1200 = \frac{6000 \times R \times 2}{100}$

$R = 10\%$

Since compounding is done half-yearly, rate of interest = 5%

Effective rate of interest = $5 + 5 + \frac{5 \times 5}{100} = 10.25\%$

Required interest = $\frac{6000 \times 10.25 \times 1}{100} = \text{Rs } 615$

S53. Ans.(b)**Sol.** let speed of boat in still water & speed of stream be $7x$ & $3x$ kmph respectively

ATQ, $\frac{28}{7x+3x} = \frac{42}{60}$

$x = 4$

Required difference = $\frac{40}{7x-3x} - \frac{60}{7x+3x} = \frac{4}{x} = 1$ hour

S54. Ans.(d)**Sol.** let amount invested by A be $\text{Rs } x$

Profit ratio; $A : B = (x \times 12) : (17000 - x) \times 6 + (15500 - x) \times 6$

$= 2x : (32500 - 2x)$

ATQ, $\frac{19500}{32500 - 2x + 2x} \times (32500 - 2x) = 8100$

$32500 - 2x = 13500$

$x = \text{Rs } 9500$

required capital of B after 6 months = $15500 - x = \text{Rs } 6000$

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**SBI Clerk 2020
Prelims**

- 20 Full Length Mocks
 - 6 Memory Based Mocks
- Based on 22nd, 29th Feb 2020

S55. Ans.(c)**Sol.** let length & breadth of rectangle be x & y m respectively

ATQ, $1.4xy - xy = 24$

$xy = 60$ (i)

also, $2(x + y) = 32$

$x + y = 16$ (ii)

from (i) & (ii)

$x = 10 \text{ m}, y = 6 \text{ m}$

breadth of rectangle = 6 m

S56. Ans.(d)

$? = 170 - 35$

$? = 135$

S57. Ans.(a)**Sol.**

$(12 + 13) \times 3 = \frac{?}{5}$

$? = 375$

S58. Ans.(c)**Sol.**

$? = (3 \times 5) \times 8$

$? = 120$

S59. Ans.(b)**Sol.**

$\left(\frac{120}{100} \times 750\right) \div ? = 25$

$? = 900 \div 25$

$? = 36$

S60. Ans.(d)**Sol.**

$? = (8 - 4 + 3) + \frac{6-10+7}{12}$

$? = 7 \frac{1}{4}$

S61. Ans.(e)**Sol.**

$275 + \frac{64}{100} \times 750 = 750 + ?$

$275 + 480 = 750 + ?$

$? = 5$



S62. Ans.(a)

Sol.

$$? = 15 + 9 + 144$$

$$? = 168$$

S63. Ans.(c)

Sol.

$$\frac{510}{?} = 18 + 3.25$$

$$? = 24$$

S64. Ans.(d)

Sol.

$$\frac{12.5}{100} \times (120 + ?) = 45$$

$$120 + ? = 360$$

$$? = 240$$

S65. Ans.(c)

Sol.

$$44 \times 12 - 16 = (8)^2$$

$$528 - 16 = (8)^2$$

$$? = 3$$

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