Quiz Date: 7th June 2020

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Directions (1-5): Study the given passage carefully and answer the questions.

The total population of city X is 7100 out of which 24% population are below poverty line. And total population of city X is $11 \frac{1}{4}$ % less than total population of city Z and 25% of population in city Z is below poverty line. Population other than below poverty line in city L is 160 more than population of city X which are not below poverty line.

Average population of Y and K is equal to average population of city X and Z & population of Y is 150% of population of K. Ratio of BPL in city Z to city K is 2 : 3. 20% of total population are BPL in city Y and Z. BPL in city L is equal to BPL in city X.

Q1. Average BPL population in city X and Y is how much more/less than average BPL population in city K and L?

(a) 794

(b) 824

(c) 848

(d) 764

(e) None of these

Q2. Average population in city K and L is what percent of total population in city Z?

- (a) 93%
- (b) 73%
- (c) 83.125%
- (d) 87.50%
- (e) 78.625%

Q3. In another city 'A', BPL population is half of the population other than BPL in city K which is 25% of total population. Then find total population in city A ?

- (a) 6820
- (b) 6080
- (c) 6240
- (d) 6040
- (e) None of these

Q4. What is the average BPL population in all the cities ?

- (a) 1924
- (b) 1884
- (c) 1724
- (d) 1964
- (e) None of these

Q5. What is the ratio of BPL population in city Y to city L?

- (a) 426 : 353
- (b) 353 : 426

(c) 351:425
(d) 353:428
(e) None of these

Directions (6-10) :What will come in place of the question mark (?) in the following number series ?

Q6. 8 (a) 248 (b) 247 (c) 237 (d) 238 (e) 254	14	32	58	124	?		-	
				6	Months S B MAH Live Clas	CLERK		
Q7. 25 (a) 425 (b) 415 (c) 409 (d) 410		41	89	169	281	?		
(d) 419 (e) 414								
Q8. 461 (a) 460 (b) 482 (c) 456 (d) 478 (e) 468		474	465	478	469	?		
Q9. 980 (a) 73 (b) 71 (c) 83 (d) 91 (e) 81		516	284	168	110	?		
Q10. 4 (a) 530		5	8	27	104	?		

(b) 514 (c) 520 (d) 509

(e) 525

Q11. A man borrows Rs. 4000 at 20% compound rate of interest. At the end of each year he pays back Rs. 1500. How much amount should he pay at the end of the third year to clear all his dues ?

(a) Rs. 2592

(b) Rs. 2852

(c) Rs. 2952

(d) Rs. 2953

(e) Rs. 3912

Q12. Manish borrowed some money at the rate of 7 per cent per annum for the first three years, 9 per cent per annum for the next six years and 10 per cent per annum for the period beyond nine years. If the total interest paid by him at the end of fifteen years is Rs 4050, how much money did he borrow?(if simple interest be reckoned)

- (a) Rs 2800
- (b) Rs 3600
- (c) Rs 3000
- (d) Rs 3500
- (e) Rs. 3200

Q13. What sum will give Rs. 244 as the difference between simple interest and compound interest at 10% in $1\frac{1}{2}$ years compounded half yearly?

(a) Rs. 40,000 (b) Rs. 36,000

(c) Rs. 32,000

- (d) Rs. 28,000 (e) Rs. 30,000
- (e) RS. 30,000

Q14. A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs 723 more, if the interest was payable half-yearly than if it was payable annually. The sum is?

(a) Rs. 38,000
(b) Rs. 30,000
(c) Rs. 20,000
(d) Rs. 25,000
(e) Rs. 35000

Q15. A man deposited a certain sum of money at the beginning of each year for three years in a bank. After 3 years he got total amount Rs 7440. If the rate of interest is 12% per annum at simple interest. Find the amount deposited at the beginning of each year.(a) Rs 1700

(b) Rs 2000 (c) Rs 2200 (d) Rs 2500 (e) None



Solutions

Sol (1-5) Total population of city X = 7100 Population below poverty line in city X = 1704Population of X other than BPL = 7100 - 1704 = 5396Total population of city $Z = \frac{7100}{(100-11.25)} \times 100 = 8000$ BPL population in city $Z = \frac{1}{4} \times 8000 = 2000$ Population other than BPL in city L = 5396 + 160 = 5556 Avg. population of city Y and K. $=\frac{\frac{7100+8000}{2}}{2}=7550.$ Let total population of city K be x \therefore (1.5x + x) = 7550 × 2 x = 6040. : Total population of city $Y = 6040 \times 1.5 = 9060$ BPL population of city K = $\frac{2000}{2} \times 3 = 3000$ BPL population in city L = 1704Total population in city L = 1740 + 5556 = 7260BPL population in city Y $=\frac{20}{100} \times [9060 + 8000] - 2000$ = 3412 - 2000= 1412

City	Below poverty	other than	Total
	line	BPL	
Х	1704	5396	7100
Y	1412	7648	9060
Ζ	2000	6000	8000

К	3000	3040	6040
L	1704	5556	7260

S1. Ans.(a) Sol. Required difference = $\left(\frac{3000+1704}{2}\right) - \left(\frac{1704+1412}{2}\right)$ = 2352 - 1558 = 794 S2. Ans.(c) Sol. Required percentage = $\frac{\frac{6040+7260}{2}}{8000} \times 100$ $=\frac{6650}{8000} \times 100 = 83.125\%$ S3. Ans.(b) Sol. BPL population in city A = $\frac{3040}{2}$ = 1520 \therefore Total population in city A. $= 1520 \times 4 = 6080$ S4. Ans.(d) Sol. 1704+1412+2000+3000+1709 5 Required Avg. = daz 5 $=\frac{9820}{5}$ = 1964S5. Ans.(b) Sol. Required ratio = $\frac{1412}{1704}$ = 353 : 426 S6. Ans (d) Sol. The series is $8 \times 2 - 2 = 14$ $14 \times 2 + 4 = 32$ $32 \times 2 - 6 = 58$ $58 \times 2 + 8 = 124$ $124 \times 2 - 10 = 238$ S7. Ans (a) Sol. The series is $25 + 16 \times 1 = 41$ $41 + 16 \times 3 = 89$

 $89 + 16 \times 5 = 169$ $169 + 16 \times 7 = 281$ $281 + 16 \times 9 = 425$

S8. Ans (b)

Sol. The series is



S9. Ans (e) Sol. The series is $980 \div 2 + 26 = 516$ $516 \div 2 + 26 = 284$ $284 \div 2 + 26 = 168$ $168 \div 2 + 26 = 110$ $110 \div 2 + 26 = 81$



S10. Ans (e) Sol. The series is $4 \times 1 + 1 = 5$ $5 \times 2 - 2 = 8$ $8 \times 3 + 3 = 27$ $27 \times 4 - 4 = 104$ $104 \times 5 + 5 = 525$

S11. Ans.(c) Sol.

Amount	4000	rate	20%
At end of 1 st year	4000 + 800 = 4800	Rs.	
Amount	4800 - 1500 = 3300	Rs.	
At the end of 2^{nd} year	3300 + 660 = 3960	Rs	

Amount

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3960 – 1500 = 2460 Rs

Amount to be paid at the end of third year = 2460 + 492 = 2952 Rs.

S12. Ans. (c)
Sol.
Let the borrowed sum is S
S7733 + S7834 + S7876 +
$$\frac{5 \times 10 \times 6}{100} = 4050$$

0.21S + 0.54S + 0.6S = 4050
1.3S5 = 4050
S = $\frac{4050}{1.35} = 3000$ Rs.
S13. Ans.(c)
Sol.
Simple interest for 1½ year = 15% of principal
CI for 3 term at the rate of 5% = principal $\left[\left(1 + \frac{5}{100}\right)^3 - 1\right]$
= 15.7625% of principal
CI - SI = 0.7625% of principal
0.7625% of principal = 244
Sum (or principal) = Rs. 32000
S14. Ans.(b)
Sol. Let the sum be Rs. x
C.I. when interest is compounded half-yearly,
= $\left[x\left(1 + \frac{10}{100}\right)^4 - x\right]$
= Rs. $\frac{4041x}{1000}$
C.I. when interest is compounded yearly,
= $x \times \left[\left(1 + \frac{20}{100}\right)^2 - 1\right]$
= Rs. $\frac{11x}{25}$
 $x^{441x} = 723$
 $x = \text{Rs} . 30,000$
S15. Ans.(b)
Sol. Let amount invested at the beginning of each year = P Rs.
Now according to question
 $\left(P + \frac{12}{100} \times P\right) + \left(P + \frac{12}{100} \times 2P\right) + \left(P + \frac{12}{100} \times 3P\right) = 7440$

 $\Rightarrow P = Rs. 2000$

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