## Quiz Date: 15<sup>th</sup> April 2020

Q1. A jobber buys an article at Rs 24. He then wishes to sell the article at a gain of  $33\frac{1}{3}\%$  of his cost after allowing a 20% discount on his marked price. At what price (in Rs) should the article be marked?

(a) Rs 30.00 (b) Rs 33.60

- (c) Rs 40.00
- (d) Rs 42.00
- (e) Rs 45.50

Q2. The ratio of the capitals lent for two years under CI annually and for four year under SI is 6 : 5 given that the rate of interest for both is same. When the interest obtained is same, then the value of the rate of interest is

(a) 145%

- (b) 122.22%
- (c) 135%
- (d) 133.33%
- (e) 143.33%

Q3. A retailer purchased radio sets at the rate of Rs. 400 each from a wholesaler. He marked up the price by 30% and allowed a discount of 8% on each set, then find the profit percentage?

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- (a) 19%
- (b) 78.4%
- (c) 22% (d) 19.6%
- (u) 19.0%
- (e) 16.9%

Q4. A person bought some articles at the rate of 5 per rupee and the same number at the rate of 4 per rupee. He mixed both the types and sold at the rate of 9 for 2 rupees. In this business he suffered a loss of Rs. 3. The total number of articles bought by him was

- (a) 1090
  (b) 1080
  (c) 540
  (d) 545
  (c) 554
- (e) 554

Q5. A book seller purchased 120 exercise books at the rate of Rs. 3 each and sold  $\frac{1}{3}$  of them at the rate of Rs. 4 each,  $\frac{1}{2}$  of them at the rate of Rs. 5 each and the rest at the cost price. Then find the total profit percent of book seller?

(a) 44% (b)  $44\frac{4}{2}$ %

(b)  $44\frac{4}{9}\%$ 

- (c)  $44\frac{2}{3}\%$ (d) 45%
- (e) 50%

Q6. A sells an article to B making a profit of  $\frac{1}{5}$  of his outlay. B sells it to C, gaining 20%. If C sells it for Rs. 600 and incurs a loss of  $\frac{1}{6}$  of his outlay, the cost price of A is

- (a) Rs. 600
- (b) Rs. 500
- (c) Rs. 720
- (d) Rs. 800
- (e) Rs. 850

Q7. Ravi borrowed some money at the rate of 4 p.c.p.a for the first three years, at the rate of 8 p.c.p.a for the next two years and at the rate of 9 p.c.p.a for the period beyond 5 years. If he pays a total simple interest of Rs 19550 at the end of 7 years, how much money did he borrow?

- (a) Rs 39500
- (b) Rs 42500
- (c) Rs 41900
- (d) Rs 43000
- (e) Rs 45500



Q8. Mr. X invested an amount for 2 years at 15 percent per annum at simple interest. Had the interest been compounded annually, he would have earned Rs. 450/- more as interest. What was the amount invested?

- (a) Rs. 22,000
- (b) Rs. 24,000
- (c) Rs. 25000
- (d) Rs. 25500
- (e) Rs. 20000

Q9. Two equal sums of money were invested-one at  $4\frac{1}{2}\%$  p.a. and the other at 4% p.a. At the end of 7 years, the simple interest received from the former was exceeded to that received from the latter by Rs 31.50. Each sum was

(a) Rs 100 (b) Rs 500 (c) Rs 750 (d) Rs 900

(e) Rs 950

Q10. Find the compound interest at the rate of 10% for 3 years on that principal which in 3 years at the rate of 10% per annum gives Rs 300 as simple interest.

- (a) Rs 331
- (b) Rs 310

(c) Rs 330

- (d) Rs 333
- (e) Rs 341

Q11. An article is sold at 30% profit. Had it been sold at Rs. 155 more than previous selling price and the cost price were also increased by Rs. 100 then profit would have been 5% more. Then find the CP of the article.

(a) Rs. 500

- (b) Rs. 400
- (c) Rs. 460
- (d) Rs. 480
- (e) Rs. 540

Q12. A man has Rs. 9000, some of which he deposits in Bank A at 6% S.I. and remaining he deposits in Bank B at 8% S.I.. If the total interest he earns is Rs. 1800 in three years. What is the amount invested at 6%?

(a) Rs. 3000

- (b) Rs. 6000
- (c) Rs. 4000
- (d) Rs. 4500
- (e) Rs. 5400

Q13. A sum of Rs. 1440 is lent out in three parts in such a way that the interest on first part at 2% for 3 years, second part at 3% for 4 years and third part at 4% for 5 years are equal. Then the difference between the largest and the smallest part is

- (a) Rs. 400
- (b) Rs. 560
- (c) Rs. 460
- (d) Rs. 200
- (e) Rs. 250

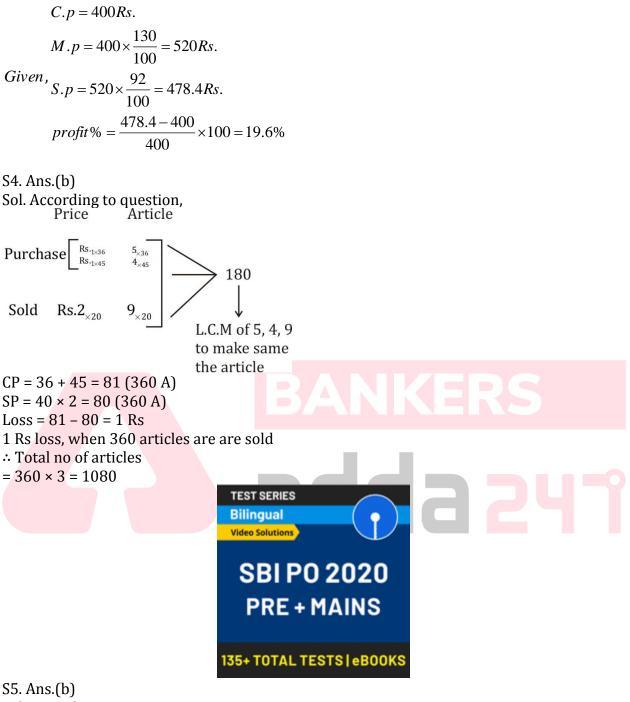
Q14. If a sum of money at compound interest doubles itself in 15 years, it will become eight times of itself in

- (a) 60 years
- (b) 48 years
- (c) 54 years

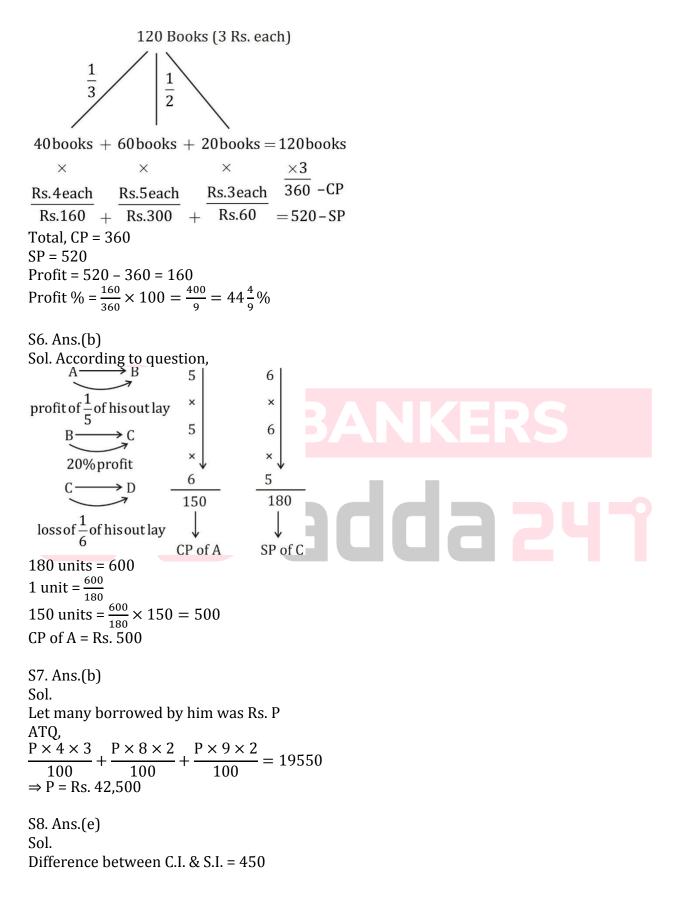
Q15. On selling a Pen at 5% loss and a book at 15% gain, Karim gains Rs. 7. If he sells the Pen

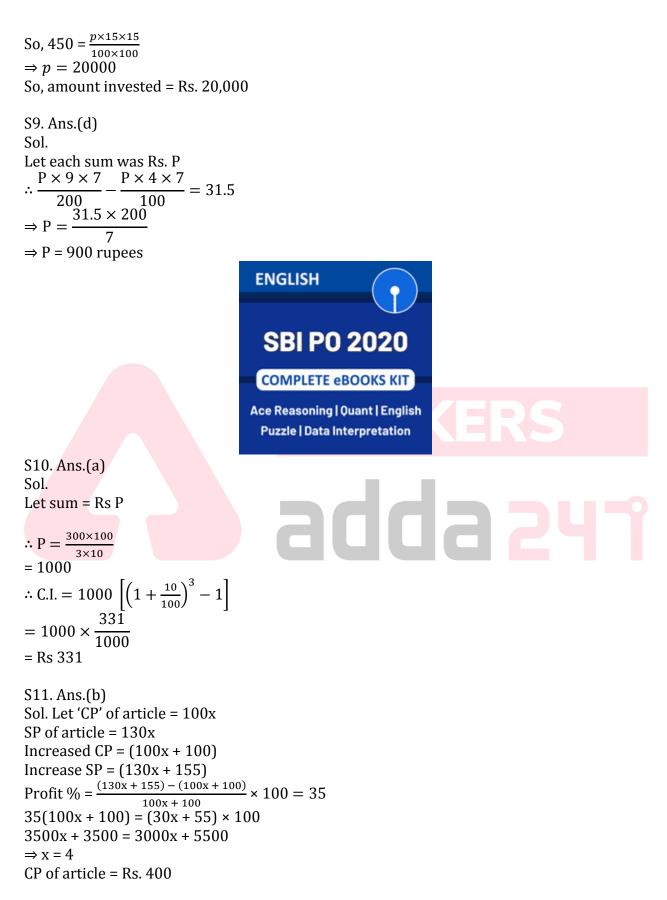
(d) 45 years (e) 30 years

at 5% gain and the book at 10% gain, then he gains Rs. 13. The actual price of the book is (a) Rs. 100 (b) Rs. 80 (c) Rs. 10 (d) Rs. 400 (e) Rs. 180 **Solutions** S1. Ans.(c) Sol. Let marked price = Rs. x  $\therefore 24 \times \frac{400}{300} = x \times \frac{80}{100}$  $\Rightarrow$  x = Rs. 40 S2. Ans.(d) Sol. Let capitals for C.I. and S.I. are 6x and 5x respectively and rate of interest be r%.  $\therefore 6x\left[\left(1+\frac{r}{100}\right)^2 - 1\right] = \frac{5x \times 4 \times r}{100}$  $\Rightarrow 6\left[\frac{r^2}{10,000} + \frac{r}{50}\right] = \frac{r}{5}$  $\Rightarrow \frac{r^2}{10,000} - \frac{r}{30} + \frac{r}{50} = 0$ **12** - $\Rightarrow \frac{r^2}{10,000} - \frac{2r}{150} = 0$  $\Rightarrow \frac{r^2}{10,000} - \frac{r}{75} = 0$  $\Rightarrow \frac{r^2}{10,000} = \frac{r}{75}$  $\Rightarrow$  r = 133.33% S3. Ans.(d) Sol. According to question,



Sol. According to question





S12. Ans.(b) Sol. Let he invests Rs. x in bank A and in bank B it is (9000 - x)ATQ,  $\frac{x \times 6 \times 3}{100} + \frac{(9000 - x) \times 8 \times 3}{100} = 1800$  $\Rightarrow 18x + 2,16,000 - 24x = 1,80,000$  $\Rightarrow$  x = Rs. 6,000 S13. Ans.(b) Sol. Let three parts are x, y and z respectively. x + y + z = 1440(i) ATQ,  $\frac{x \times 2 \times 3}{100} = \frac{y \times 3 \times 4}{100} = \frac{z \times 4 \times 5}{100}$  $\Rightarrow 3x = 6y = 10z$  $\therefore$  Ratio of x, y and  $z = \frac{1}{3} : \frac{1}{6} : \frac{1}{10}$ = 10:5:3 $\therefore$  Required deference =  $\frac{10-3}{18} \times 1440$ = Rs. 560S14. Ans.(d) Sol. Since in 15 years money becomes 2 times. : i.e.  $2^1$  \_\_\_\_\_ 15 years :  $8 = 2^3$  \_\_\_\_\_ 15 × 3 = 45 years addaz S15. Ans.(b) Sol. Let C. P. of pen = Rs. a C.P. of book = Rs. bA/C, first condition  $\frac{15b}{100} - \frac{5a}{100} = 7$  $\Rightarrow 3b - a = 140$  (i) A/c, second condition, 5a + 10b = 1300 $\Rightarrow a + 2b = 260$  (ii) Solving (i) and (ii), we get b = 80 rupees

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