

- A. Rs.900
- B. Rs.1000 ✓
- C. Rs.1100
- D. Rs.1200

- Your Answer :
- Correct Answer : B

◦ **Answer Justification :**

SI for 5 Yrs =  $\frac{PTR}{100} = \frac{5PR}{100}$

SI for 5 Yrs if invested at 3% more interest rate =  $\frac{5P(R+3)}{100}$

From data: Difference between the above interest rates = Rs.150

$$\text{ie., } \frac{5PR}{100} - \frac{5P(R+3)}{100} = 150$$

P= Rs. 1000, The principle amount

4. Pipe A can fill a cistern in 24 Min and pipe B in 36 min. If both opened together, when should pipe B be closed so that the cistern will be filled in 18 minutes.

- A. 18 minutes
- B. 8 minutes
- C. 9 minutes ✓
- D. 10 minutes

- Your Answer :
- Correct Answer : C

◦ **Answer Justification :**

Total capacity of the cistern = LCM of 24 & 36 = 72

Time taken by Pipe A to fill cistern =  $\frac{72}{24} = 3$

Time taken by Pipe B to fill cistern =  $\frac{72}{36} = 2$

Pipe B should be closed after some , rest filling would be done by pipe A alone

Logic —> Pipe A worked for whole 18 minutes

Pipe A work =  $18 * 3 = 54$  units

Remaining work =  $72 - 54 = 18$