

BHARAT SCHOOL OF BANKING

APTITUDE MISCELLANEOUS

Q1. A batsman average run rate was 60 runs in 50 innings. Difference between the highest and the lowest score was 180. If these two innings are not included the average of remaining 48 innings becomes 58. Find his lowest score.

- (a) 10 runs
- (b) 12 runs
- (c) 18 runs
- (d) 15 runs
- (e) None of these

S1. Ans (c)

Total runs = $60 \times 50 = 3000$ runs

After excluding two innings.

Total runs = $48 \times 58 = 2784$ runs

$H + L = 216$, and $H - L = 180$

Lowest (L) = 18runs

Q2. Mr. Ramesh spends 50% of his monthly income on household items, and out of the remaining the spends 50% on transport, and out of the remaining 10% on entertainment and 5% on sport, and the remaining amount of Rs. 1020 saved. What is Mr. Ramesh's expenditure on transport?

- (a) Rs. 2000
- (b) Rs. 2200
- (c) Rs. 1200
- (d) Rs. 2600
- (e) None of these

S2. Ans (c)

Salary spends in Household's item = 50%

Transport = 50% of remaining salary

Entertainment and sports = $(10 + 5) \%$

Remaining salary Household's item = 50%

Transport = 50%

Entertainment and sports = 85%

Now, $\frac{1}{2} * \frac{1}{2} * \frac{17}{20} * \text{total salary} = 1020$

Total salary = Rs. 4800

Expenditure on transport = $4800 * \frac{1}{2} * \frac{1}{2} = \text{Rs. } 1200$

Q3. Work done by A in one day is $\frac{3}{2}$ of the work done by B in one day. Work done by B is $\frac{1}{2}$ of the work done by C in one day. If C alone can complete the work in 9 days, in how many days will A, B and C together complete the work?

- (a) 6 days

BHARAT SCHOOL OF BANKING

APTITUDE MISCELLANEOUS

- (b) 5 days
- (c) 4 days
- (d) 10 days
- (e) None of these

S3. Ans (c)

Let work done by B in one day be 'x'

So, work done by A in one day = $3x/2$

work done by C in one day = $2x$

C can alone complete the work in 9 days

$$\text{Total work} = 9 * 2x = 18x$$

Work done by A, B and C together in one day = $3x/2 + x + 2x = 9x/2$

Total days required to complete the work by them = $18x / (9x/2) = 4$ days

Q4. A and B, B and C, and C and A can complete a task in 15, 20 and 12 days respectively. How many days will A alone take to finish the task?

- (a) 30 days
- (b) 40 days
- (c) 22 days
- (d) 20 days
- (e) None of these

S4. Ans (d)

1 day work when they work together

$$= \frac{1}{2} \left(\frac{1}{15} + \frac{1}{20} + \frac{1}{12} \right) = \frac{1}{2} \left\{ \frac{4 + 3 + 5}{60} \right\} = \frac{1}{2} * \frac{12}{60} = \frac{1}{10}$$

Together they can complete in 10 days.

$$\text{A's alone one day work} = \left(\frac{1}{10} - \frac{1}{20} \right) = \frac{1}{20}$$

A can alone complete this task = 20 day

Q5. A right angle triangle with height 5 cm and base 12 cm. This triangle is rotated once accordingly its heights. Find the curved surface area of the cone obtained?

- (a) 146π
- (b) 136π
- (c) 156π
- (d) 166π
- (e) None of these

S5. Ans (c)

$$l = \sqrt{5^2 + 12^2} = 13$$

$$\text{Curved surface area} = \pi * r * l = \pi * 12 * 13 = 156 \pi$$

Directions (Q. 6-10): Each of these questions consists of a question followed by information in

BHARAT SCHOOL OF BANKING

APTITUDE MISCELLANEOUS

three statements. You have to study the question and the statements and decide that information in which of the statement(s) is/are necessary to answer the question.

Q6. What is the speed of a train?

- I. The train crosses a pole in 12 seconds.
- II. The length of the train is 350 meters.
- III. The train crosses a platform double its length in 36 sec.

- (a) I only
- (b) II only
- (c) Either I and II together or II and III together
- (d) III only
- (e) None of these

S6. Ans (c)

Using Statement, I & II

$$\text{Speed} = 350/12 = 29.16 \text{ m/s}$$

Using Statement, II & III

$$\text{Speed} = (350*2)/36=19.45 \text{ m/s}$$

Q7. What is a two-digit number?

- I. The number obtained by interchanging the digits of the number is lesser than the original number by 27.
- II. The ratio of digits of the original number is 5 : 2.
- III. The difference between the two digits of the original number is 3.

- (a) I and II both
- (b) Either I and II together or II and III together
- (c) III only
- (d) I and III
- (e) None of these

S7. Ans (b)

From Statement I

$$(10x+y) - (10y-x) = 27$$

$$x-y = 3$$

From Statement II

$$X : y = 5 : 2$$

From statement III

BHARAT SCHOOL OF BANKING

APTITUDE MISCELLANEOUS

$$x - y = 3$$

So the digit can be obtained by Either I and II together or II and III together

Q8. In how many days can 18 men and 8 women together complete a piece of work?

- I. 6 men complete the piece of work in 8 days.
- II. 16 women complete the piece of work in 10 days
- III. 9 boys take 16 days to complete the piece of work.

- (a) I and III both
- (b) II only
- (c) I and II both
- (d) Either (I & II) or (II & III)
- (e) None of these

S8. Ans (c)

The required answer can be obtained by using both Statement I & II, Statement III is irrelevant.

Q9. What is the area of square?

- I. The diagonal is 2 times of the side of the square.
- II. The ratio of the sides is given.
- III. The perimeter of the square is 56 cm.

- (a) I & II both
- (b) II only
- (c) III only
- (d) I only
- (e) None of these

S9. Ans (c)

From Statement III

$$\text{Perimeter} = 4a = 56$$

$$a = 14$$

$$\text{Area} = a * a = 14 * 14 = 196$$

Q10. What is the rate of interest p.c.p.a.?

- I. The simple interest earned is Rs 4800 for a period of two years.
- II. The difference between the compound and the simple interest on an amount on equal interest rates is Rs 192 at the end of 2 years.

BHARAT SCHOOL OF BANKING

APTITUDE MISCELLANEOUS

III. An amount triples itself in 25 years at a simple rate of interest.

- (a) I only
- (b) II only
- (c) I and III both
- (d) Either I & II or III only
- (e) None of these

S10. Ans (d)

From Statement I

$$4800 = P \cdot R \cdot 2 / 100$$

$$PR = 240000$$

From Statement II

$$\text{Difference} = (PR^2) / [100]^2 = 192$$

$$R = 8\%$$

From Statement III

$$2P = P \cdot R \cdot 25 / 100$$

$$R = 8\%$$

BHARAT SCHOOL OF BANKING