

SBI SO Mock Test 3

- Q 1.** The average age of a father and his son is 40 years. Four years ago, the ratio of their ages was 10:5. What is the difference between the present ages of the man and his son?
1. 24 years
 2. 26 years
 3. 36 years
 4. 45 years
 5. None of these
- Q 2.** The average height of 27 persons was recorded as 126 cm. If the height of Akshay was deleted from the observation, the average height reduced by 1 cm. What was the height of Akshay?
1. 148 cm
 2. 236 cm
 3. 189 cm
 4. 116 cm
 5. 152 cm
- Q 3.** The ratio between the speeds of a ship, jeep and train is 2:9:18. The jeep moved uniformly and covered a distance of 1080 km in 12 hours. What is the average speed of truck and train together?
1. 54 km/hr
 2. 60 km/hr
 3. 36 km/hr
 4. 25 km/hr
 5. 80 km/hr
- Q 4.** The probability of P passing an exam is $\frac{1}{3}$ and that of Q passing the exam is $\frac{3}{4}$. What is the probability that both A and B will pass the exam?
1. $\frac{2}{3}$
 2. $\frac{3}{4}$
 3. $\frac{1}{4}$
 4. $\frac{1}{3}$
 5. $\frac{17}{12}$
- Q 5.** Two pipes can fill a tank in 30 and 20 minutes, respectively and a waste pipe can empty 3 gallons per minute. All the three pipes at work together can fill the tank in 15 minutes. The capacity of the tank in gallons is

1. 126
2. 180
3. 80
4. 90
5. 140

Q 6. What is the product of $34565 * 24565$?

1. 849089225
2. 289760789
3. 334670123
4. 123456456
5. 456789890

Q 7. There is a 100 litres solution of milk and water in which milk forms 80%. How much water must be added to the solution so that milk forms 20%?

1. 175 litres
2. 140 litres
3. 128 litres
4. 115 litres
5. 220 litres

Q 8. Find the single discount equivalent to a series discount of 40%, 20% and 10%.

1. 52.6%
2. 45%
3. 42.2%
4. 38.8%
5. 56.8 %

Q 9. P is 30% more than Q and Q is 60% less than R. By what percentage is P less than R?

1. 35%
2. 50%
3. 30%
4. 48%
5. 45%

Directions (10-14): Rearrange the following sentences in a proper sequence so as to form a meaningful paragraph and then answer the questions given below.

1. It is then a question of which effect is faster.

2. Keynesian economists argue that the fall in demand for goods resulting from unemployment will precede, and thus dominate, the reduction in prices resulting from automation.
3. This will lead to a further increase in joblessness, at least in the short run.
4. The introduction of labour-saving technology will result in lower prices, but it will also reduce consumption by workers who are made redundant.
5. How quickly these compensation mechanisms operate will depend on how easily capital and labour move between occupations and regions.

Q 10. Which of the following is the last sentence?

1. 3
2. 1
3. 4
4. 5
5. 2

Q 11. Which of the following is the first sentence?

1. 4
2. 3
3. 2
4. 1
5. 5

Q 12. Which of the following is the second sentence?

1. 1
2. 2
3. 3
4. 4
5. 5

Q 13. Which of the following is the third sentence?

1. 3
2. 2
3. 5
4. 4
5. 1

Q 14. Which of the following is the fourth sentence?

1. 2
2. 3

3. 5
4. 4
5. 1

Direction (15-19): In the following passage, there are blanks each of which has been numbered. These numbers are given in the below passage and against each, five words are suggested, one of which fits the blank, appropriately. Find out the appropriate word in each case.

Suddenly, opinion polls find that Ukrainians are more ----- (15) ----- about their future than are citizens of most other countries across the world. That will come as a surprise to many, given Ukraine's ----- (16) ----- challenges, and yet it is justified by the country's current political ----- (17) -----. For the first two decades after the collapse of the Soviet Union, Ukraine was one of the most ---- (18) ---- governed of the successor states. Whereas Russia initially underwent liberal economic reforms and has long benefitted from ---- (19) ---- oil and gas prices and the Baltic states were admitted to the European Union in 2004, Ukraine was left in the dust.

Q 15.

1. Optimistic
2. Pessimistic
3. Prepared
4. Instilled
5. made

Q 16.

1. Unique
2. Individual
3. Singular
4. Manifold
5. Unique

Q 17.

1. Presence
2. Listened
3. Trajectory
4. Ahead
5. Front

Q 18.

1. Poorly
2. Richly
3. Made

4. Knot
5. Build

Q 19.

1. High
2. Presence
3. Low
4. Once
5. Before

Directions (20 - 24): Seven employees of the Income Tax Department, P, Q, R, S, T, U and V travelled to three neighbouring countries such as the Maldives, Bhutan and Nepal. Each of them travelled on a different day of the week in such a condition that no two employees can travel on the same day, starting on Monday and ending on Sunday. Minimum of two employees travelled to each country and Maldives is the only country to which three employees travelled.

P travelled to the Maldives on Monday. U travelled to Bhutan but neither on Tuesday nor on Saturday. V travelled on Sunday but not to Nepal. The employee who travelled to Bhutan travelled on Tuesday and the employee who travelled to Nepal travelled on Saturday. T travelled on Wednesday. R travelled to the Maldives but not on Thursday. B did not travel to Nepal.

Q 20. If every employee's trip is postponed by one day, which employee will be travelling on Wednesday?

1. U
2. R
3. Q
4. T
5. None of these

Q 21. Who among the seven employees travelled on Saturday?

1. S
2. Q
3. R
4. Cannot be determined
5. None of these

Q 22. Which of the following combinations is true according to the given information?

1. U - Thursday - Maldives
2. S - Wednesday - Nepal
3. V - Monday - Maldives

4. R - Friday - Bhutan
5. None of these

Q 23. To which country and on which day did Q travel?

1. Wednesday, Maldives
2. Friday, Bhutan
3. Thursday, Bhutan
4. Tuesday, Bhutan
5. None of these

Q 24. Who was the last employee to travel?

1. P
2. R
3. V
4. S
5. None of these

Q 25. In a code language, SLOVAKIA is coded as 1361191, what is the code for BELARUS?

1. 2531931
2. 2353911
3. 5329311
4. 3344568
5. 1197882

Answer keys

Q 1. 1	Q 2. 5	Q 3. 3	Q 4. 3	Q 5. 2
Q 6. 1	Q 7. 5	Q 8. 5	Q 9. 4	Q 10. 3
Q 11. 5	Q 12. 4	Q 13. 5	Q 14. 1	Q 15. 1
Q 16. 4	Q 17. 3	Q 18. 1	Q 19. 1	Q 20. 3
Q 21. 1	Q 22. 5	Q. 23 4	Q 24. 1	Q 25. 1

Solution 1:

Let the present ages of man and son be F and S.

As per the details given in the question,

$$(F+S) / 2 = 40$$

$$F+S = 80 \text{ --- equation (1)}$$

$$(F-4) / (S-4) = 10 / 5$$

$$2S - F = 4 \text{ ----- equation (2)}$$

On solving equation 1 and equation 2

$$S = 28 \text{ and } F = 52$$

Therefore the difference between present ages of man and his son = $52 - 28 = 24$ years

Solution 2:

Let the height of Akshay be A.

Sum of the height of 27 persons = $126 \times 27 = 3402$ cm

As per the details provided in the question, we can arrive at the following equation,

$$(3402 - A) / 26 = 125$$

$$A = 3402 - 3250$$

$$= 152 \text{ cm}$$

Shortcut:

Due to shortage of time, candidates can opt for a shortcut method which requires very less Calculation.

When the height of Akshay is removed, the remaining number of people is 26.

When the height of Akshay is removed, the average height reduces by 1 cm as per the question. Hence we find $26 \times 1 = 26$ cm

Finally, add 26 cm to 126 cm and we get the height of Akshay

$$126 + 26 = 152 \text{ cm.}$$

Here we have found the final answer by avoiding multiplication and division of big numbers, thus saving time.

Solution 3:

Car covers a distance of 1080 km in a span of 12 hours, hence

$$\text{Speed of jeep} = 1080 / 12 = 90 \text{ km/hr}$$

The ratio of speeds of ship, jeep and train = 2:9:18.

$$\text{Hence, } 9x = 90$$

$$X = 10 \text{ kmph}$$

$$\text{Speed of truck} = 2x = 2 * 10 = 20 \text{ kmph}$$

$$\text{Speed of train} = 18x = 18 * 10 = 180 \text{ kmph}$$

$$\text{Therefore Average speed of ship and train} = (2 * 20 * 180) / (20 + 180)$$

$$= 7200 / 200 = 36 \text{ kmph}$$

Solution 4:

The required probability is $1/3 \times 3/4 = 1/4$

Solution 5:

Let the time taken by waste pipe to empty the tank = x min

$$\text{Then, } (1/30) + (1/20) - (1/x) = 1/15$$

$$1/x = 1/60$$

$$X = 60$$

The capacity of tank = $60 \times 3 = 180$ gallons

Solution 6:

Use the method of eliminating from the options. On close observation, the last digit in the product has to end with digit 5. There is only option ending with 5. Hence 849089225 is the answer.

Solution 7:

Quantity of milk = 80% of 100 = 80 litres

When X litres of water is added the total quantity of solution = $100 + x$

And 80 litres of milk in the final solution becomes 25% of the solution

Hence the final equation is

$$80 / (100 + x) = 25/100$$

$$80 / (100 + x) = 1/4$$

$$320 = 100 + x$$

$$x = 220$$

Hence the quantity of water added is 220 litres.

Solution 8:

$$100 - 40\% \text{ of } 100 = 60$$

$$60 - 20\% \text{ of } 60 = 48$$

$$48 - 10\% \text{ of } 48 = 43.2$$

$$100 - 43.2 = 56.8\%$$

Solution 9:

$$\text{Let } R = 100$$

$$Q = 100 - 60\% \text{ of } 100 \text{ (Since } Q \text{ is } 60\% \text{ less than } R)$$

$$= 100 - 60 = 40$$

$$P = 40 + 30\% \text{ of } 40 \text{ (Since } P \text{ is } 30\% \text{ more than } Q)$$

$$= 40 + 12 = 52$$

$$\text{Percentage by which } P \text{ is less than } R = [(100 - 52) / 100] * 100 = 48\%$$

Solution 20:

From the table, we can find that Q travel on Wednesday

Days	Employee	Country
Monday	P	Maldives
Tuesday	Q	Bhutan
Wednesday	T	Nepal
Thursday	U	Bhutan
Friday	R	Maldives
Saturday	S	Nepal

Sunday	V	Maldives
--------	---	----------

Solution 21:

From the above table, we can find that S travelled on Saturday.

Solution 22:

From the above table, we can find that none of the combinations are correct

Solution 23:

From the above table, we can find that Q travelled on Tuesday to Bhutan

Solution 24:

From the final table, we can find that V was the last employee to travel, he travelled on Sunday.

Solution 25:

$$B \rightarrow 2$$

$$E \rightarrow 5$$

$$L \rightarrow 12 \rightarrow 1+2 = 3$$

$$A \rightarrow 1$$

$$R \rightarrow 18 \rightarrow 1+8 = 9$$

$$U \rightarrow 21 \rightarrow 2+1 = 3$$

$$S \rightarrow 19 \rightarrow 1+9 = 10 = 1+0 = 1$$

From the above logic, we can conclude that the answer is 2531931