

BSI SO Mock Test

**Directions 1-2:** Each question has a pair of CAPITALIZED words followed by four pairs of words. Choose the pair of words which best expresses the relationship similar to that expressed in the capitalized pair.

**Q.1.**

WOOL : ACRYLIC

1. cotton : terylene
2. rayon : silk
3. plastic : rubber
4. winter : spring

**Answer 1**

**Q.2.**

SPEAR : DART

1. door : window
2. mountain : molehill
3. knife : sword
4. cannon : gun

**Answer 3**

**Directions 3-4 :** In each of these questions, a sentence has been divided into four parts and marked I, II, III, and IV. One or more parts contains a mistake in grammar, idiom or syntax. Identify that part and mark it as the answer.

**Q.3.**

1. I wondered who could be calling me at midnight
2. and when I took the phone
3. I found it was not other
4. Than my fiance from Paris.

**Answer 4**

**Q.4.**

1. When you turn to your right,
2. you will find a big house
3. with a beautiful garden on the front side of it
4. and that is my residence.

**Answer 4**

**Directions 5-6** Read the following sentences and select that item which does not belong to the group.

**Q.5.**

1. Air travel is expensive
2. Aeroplanes are expensive
3. Most people travel to Australia by air
4. Businessmen travel a lot by air.

**Answer 2**

**Q.6.**

1. Scientists use their logical abilities.
2. Artists use their creative abilities
3. Managers use their authority.
4. Engineers use their technical skills.

**Answer 3**

**Q.7.** Six statements followed by four sets of combinations of three are given below. Choose the set in which the statements are logically related.

1. Sham lost in a chess game.
2. Sham plays chess.
3. Sham won a lottery.
4. Sham is not intelligent.
5. One need not be intelligent to win a lottery.
6. One need not be intelligent to win a chess game.

1. 126
2. 345
3. 156
4. 125

**Answer 1**

**Q.8.** City A has a population of 68000, which is decreasing at the rate of 1200 per year, City B has a population of 42000, which is increasing at the rate of 800 per year. In how many years will the population of the two villages be equal?

1. 11 years
2. 12 years
3. 13 years
4. 14 years

**Answer 3**

**Solution 8:** Let the population of Village A and B be equal after P years

Then, 68000 – 1200p = 42000 + 800p

2000p = 26000

p = 13

Hence, the population of the two villages will be equal after 13 years

**Q.9.** 74 is divided into two parts so that 5 times of one part and 11 times the others are together equal to 454. The parts are?

1. 60, 14
2. 44, 30
3. 54, 14
4. 30, 43

**Answer 1**

**Solution 9.** Let the two parts be x and (74 – x)

Then, 5x + 11(74 – x) = 454

6x = 360

X = 60 – 1st part

(74 – 60) = 14– 2nd part.

**Q.10.** the square root of (272<sup>2</sup> – 128<sup>2</sup>) is ?

1. 256
2. 240
3. 200
4. 144

**Answer 2**

**Solution 10.** √(272<sup>2</sup> – 128<sup>2</sup>) = √(272 + 128) (272 – 128)

√400 x 144 = √ 57600 = 240

**Q.11.** The average salary of workers in a factory is ₹6000. The average salary of 150 technicians is ₹12000 and that of non-technicians is ₹3750. What is the total number of workers in the factory?

1. 650
2. 750
3. 450
4. 550

**Answer 4**

**Solution 11.** Let total number of workers be S,

Then, 6000s = (12000 x 150) + 3750 (s – 150)

2250s = 1237500

s = 550

Hence, the total number of workers in the factory is 550.

**Q.12.** The average age of a mother and her six children is 12 years which is reduced by 5 years if the age of the mother is excluded. How old is the mother?

1. 50 years
2. 44 years
3. 42 years
4. 38 years

**Answer 3**

**Solution 12:** Age of the mother = (12 x 7 – 7 x 6) = 42 years.

**Q.13.** The sum of two numbers is 37 and the difference of their squares is 185, then the difference between the two numbers is?

1. 10
2. 5
3. 3
4. 7

**Answer 2**

**Solution 13.** Let the numbers be A and B where A > B.

As per the question

A + B = 37 and A<sup>2</sup> – B<sup>2</sup> = 185

(A + B) (A – B) = 185

37 (A – B) = 185

A – B = 185 / 37 = 5

**Q.14.** If an electricity bill is paid before the due date, one gets a reduction of 4% on the amount of the bill. By the bill before the due date a person got a reduction of ₹13. What is the final amount of the electricity bill?

1. 325
2. 225
3. 425
4. 125

**Answer 1**

**Solution 14.** Let the amount of the bill be ₹b.

4% of b = 13;

4b/100 = 13

b = [13 x 100] / 4

b = 325

**Q.15.** By selling 45 lemons for ₹40 Ashit loses 20%. How many should he sell for ₹24 to gain 20% in the transaction?

1. 20
2. 18
3. 16
4. 22

**Answer 2**

**Solution 15.** Let the S.P. of 45 lemons be ₹x

Then, 80 : 40 = 120 : X

X = (120 x 40) / 80 = 60

For ₹60 lemons sold = 45

For ₹24 lemons sold = [(45/60) x 24] = 18

**Q.16.** Ashit offers 2.5% discount on cash purchase to his customers. If Rekha wants to buy a cycle the marked price of which is 650. What cash amount would she pay availing the discount?

1. 633.75
2. 633.25
3. 634
4. 635

**Answer 1**

**Solution 16.** S.P. 97 ½% of ₹650

(195/2 x 1/100 x 650) = 633.75

**Q.17.**

**Statements:**

Some Symbols are figures

All symbols are graphics

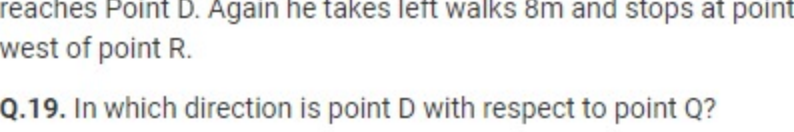
No graphics is a picture

**Conclusion**

1. Some graphics are figures
2. No symbols are graphics
3. Only 1 follows
4. Neither 1 nor 2 follow

**Answer 3**

**Solution 17.**



**Q.18.**

**Statements:**

All vacancies are jobs

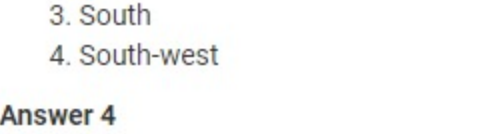
Some jobs are occupations

**Conclusions:**

1. All vacancies are occupations
2. All occupations being vacancies is a possibilities
3. Only 1 follows
4. Neither 1 nor 2 follows

**Answer 2**

**Solution 18.**



**Directions 19-21** Read the following and answer the questions.

Sohan is standing at a point G. After walking 12m to the East he takes a left and walks 9m to reach the point S. After taking right and walking 5m he reaches point Y which is 5m to the south-west of point J.

Tarun who is standing at point J starts walking towards 4m to the North. Taking left and walking 14m, Tarun reaches Point D. Again he takes left walks 8m and stops at point R. Point Z is 9m North of point Q and 6m to the west of point R.

**Q.19.** In which direction is point D with respect to point Q?

1. South-east
2. North
3. North-east
4. West

**Answer 3**

**Q.20.**What is the distance between point R and L, if L is 1m to the south of D?

1. 5
2. 8
3. 7
4. 9

**Answer 4**

**Q.21.** In which direction is Point G with respect to point J?

1. North-west
2. East
3. South
4. South-west

**Answer 4**

**Solution 19-21**

