SBI Clerk Mock Test 3

Q 1. Alloy 1 contains zinc, magnesium, and manganese in the ratio 2:5:3. Alloy 2 contains silicon, tin, and lead in the ratio 2:7:3. Equal quantities of alloys 1 and 2 are mixed to form alloy 3. What is the percentage of Lead in alloy 3?

1. A.7%
2. B.10.5%
3. C.12%
4. D.12.5%
5. E.14%

Q 2. Two colleagues A and B are working on a project. The efficiency of A is thrice the efficiency of B. B takes 20 days more than A to finish the entire project alone. If A and B work together, they can complete the entire project in ---- days.

1. A.10.5
2. B.7.5
3. C.11
4. D.6.25
5. E.11.5

Q.3 The speed of a car is 80 km/h. If the speed is increasing every 2 hours by 4km/hr, in how many hours will the car cover 360 km?

1. 4.82 hours
2. 4.36 hours
3. 5.6 hours
4. 6.5 hours
5. 4.20 hours

Q.4 There is a circular ground whose area is 246400 m^2. If a person runs at a speed of 32 m/s. Then how much time he will take to complete the circle?

1. 25 seconds
2. 30 seconds
3. C.100 seconds
4. 55 seconds
5. None of these

Q.5 4, 27, 16, 125, ? , 343

1. A.36
2. B.49

3. C.150
4. D.72
5. E. 65

Q.6 The letters A, G, L, H and U are rearranged to form the word LAUGH. Find its probability?

1. A.1/24
2. B.1
3. C.1/12
4. D.1/120
5. E.1/10

Q 7. A person invested some money at a rate of 10% simple interest. At the end of 5 years, he got Rs 2500/- as simple interest. If he put the same principal at the same rate under compound interest, how much more interest would he get in five years?

1. 552.55
2. 672.75
3. 550
4. 350
5. None of the above

Q 8. 6, 24, 126, 624, 3126, ?

1. 4500
2. 6800
3. 12500
4. 15624
5. None of the above

Q 9. 1000, 1100, 990, ?

1. 1089
2. 1098
3. 1210
4. 1120
5. 1450

Directions (10-14):

In a family, there are seven brothers and sisters, named Amit, Bipul, Chandan, Dilip, Erman, Fatikchand, and Ganesh. They work as School Inspector, Teacher, Principal, Vice Principal, Librarian, Administrative Officer and Peon for Lovely Professional School, DPS, St.Xavier, Amar Jyothi School, Greenland School, Happy School and Modern School but not in the same order. Chandan works for St.Xavier School and is neither Peon nor Librarian. Erman is Principal and works for Happy School. Amit works as Administrative Officer and does not work for Lovely Professional School or Greenland School.

The one who is for Lovely Professional School works as Vice Principal. Fatikchand works for Greenland school. Ganesh works for Amar Jyothi School as a Peon. Dilip is not a teacher.

Q 10. Who amongst the following works as a teacher?

1. A.Chandan
2. B.Bipul
3. C.Fatikchand
4. D.Dilip
5. E.None of these

Q 11. What is Chandan's Profession?

1. Vice Principal
2. Teacher
3. School Inspector
4. Cannot be determined
5. None of these

Q 12. For which school does Bipul work?

1. DPS
2. Modern School
3. Lovely Professional School
4. Either DPS or Modern School
5. None of these

Q 13. What is the profession of the person who works for Modern School?

1. Librarian
2. Teacher
3. Vice Principal
4. Administrative Officer
5. None of these

Q.14 Which of the following combinations of person, profession and school is correct?

1. Amit - Administrative Officer - DPS
2. Dilip - Librarian - Lovely Professional School
3. Fatikchand - Teacher - Greenland School
4. Bipul- Teacher - Modern School
5. None of these

Directions(15-16): In these questions, the relationship between different elements is shown in the statements. The statements are followed by two conclusions.

1. If only conclusion I is true
2. If only conclusion II is true
3. If either conclusion I or II is true
4. If neither conclusion I nor II is true.
5. If both the conclusions I or II are true.

Q 15. Statement: $P > Q \geq R$; $S < Q < T$

Conclusion:
(I) $P > S$
(II) $R < T$

Q 16. Statement: $X < Y = W \geq V > U$

Conclusion:
(I) $Y > U$
(II) $X < V$

Directions (17-21): Rearrange the given five sentences in a proper sequence so as to form a meaningful paragraph and then answer the given questions.

1. Even simple calculation related to Oxygen bottles and sense of direction becomes extremely complicated.
2. Blood becomes thicker and wounds take a long time to heal.
3. Climbing Mount Everest is the ultimate test of human limits - both physical and financial.
4. Because of the high altitude, the oxygen content of air is one-third of normal level. Lack of oxygen and extreme cold has adverse effects on the human body.
5. The low temperature and unpredictable weather can cause frostbite leaving legs and hands useless.
6. The climb can take many days starting from the trekking to the base camp and then climbing up to three higher camps before the final summit attempt.

Q 17. Which of the following should be the last sentence after rearrangement?

1. 6
2. 2
3. 1
4. 4
5. 5

Q 18. Which of the following should be the fourth sentence after rearrangement?

1. 3
2. 6
3. 4
4. 5
5. 1

Q 19. Which of the following should be the first sentence after rearrangement?

1. 2
2. 4
3. 5
4. 3
5. 6

Q 20. Which of the following should be the second sentence after rearrangement?

1. 2
2. 5
3. 3
4. 6
5. 1

Q 21. Which of the following should be the third sentence after rearrangement?

1. 1
2. 6
3. 3
4. 4
5. 2

Directions (22 - 25): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

This year RBI (Reserve Bank of India) has --------(22)------ the interest rates it charges the 'borrowing banks' by 50 Basis points (from 7% to 6.5%). and ----(23)---, commercial banks have largely resisted passing this benefit on to their borrowers. Lower interest rates are important to ----- (24) ---- consumption and investment, and therefore economic growth. In the first monetary policy meeting of the financial year 2018-19, the RBI ---- (25) ---- that it may not be inclined to further interest rate reductions without appropriate rate actions by the Banks.

Q 22.

1. Cut
2. Doubled
3. Balanced
4. Mediated
5. Increased

Q 23.

1. Yet
2. Understandably
3. So
4. Hence
5. Interestingly

Q 24.

1. Increase
2. Reduce
3. Pacify
4. Bifurcate
5. Decrease

Q 25.

1. Recommended
2. Cancelled
3. Defied
4. Objected
5. Signalled

Answer Keys

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

SOLUTIONS

Solution 1:

Quantity of Lead in Alloy 1 = 0

Quantity of Lead in Alloy 2 = 3/12 = ¼

Since alloys 1 and 2 are mixed in equal quantities, the quantity of lead in alloy 3 will be half of that contained in alloy 2 = ½ × ¼ = ⅛ = 12.5%

Solution 2:

Assume that A can complete the work in 'x' days, then B can complete the same work in '3x' days.

3x = x+2x

    = x + 20 days (Since the question says B takes 20 days more, hence 2x can be replaced with 30)

2x = 20 implies X = 10.

It means, A alone take 10 days to finish a work, and B alone takes 30 days to complete the Work.

A's 1-day work = 1/10

B's 1-day work = 1/30

A and B one day work = 1/10 + 1/30 = 4/30

Therefore, A and B together can complete a work in 30/4 = 7.5 days.

Solution 3:

Distance travelled by car in the first 2 hours = 80 × 2 = 160 km.

Distance travelled by car in the next 2 hours = 84 × 2 = 168 km

Total distance covered in 4 hours = 160+168 = 328 km.

Remaining distance = 360 - 328 = 32 km.

As the speed increases by 2 km/hr the final speed while covering remaining 32 km

= 32/88 = 0.36 Hours

Total time taken = 2 + 2 + 0.36 = 4.36 Hours.

Solution 4:

Let r = radius

$(22/7) \times (r)^2 = 246400$

Implies r = 280 m

Circumference of Circle = 2 × (22/7) × 280 = 1760 m.

Time taken to complete the circle = 1760 / 32 = 55 seconds.

Solution 5:

Series is made of squares of even numbers, cubes of odd numbers.

Solution 6:

There are 5 letters, they can be arranged in 5! Ways

5! = 5 × 4 × 3 × 2 × 1 = 120 ways.

'LAUGH' can be arranged in 1 way.

Hence the probability = (Number of possibilities) / (Total number of possibilities)

= 1/120

Solution 7:

Simple Interest (S.I) for 5 years = Rs 2500

Hence Simple Interest for 1 year = Rs 500

Let initial Principal = P

Now 10% of P = Rs 500

Implies P = Rs 5000

C.I for 1st year = 10% of 5000 = 500

C.I for 2nd year = 10% (5000+500) = 550

C.I for 3rd year = 10% of (5000+500+550) = 605

C.I for 4th year = 10% of (5000+500+550+605) = 665.5

C.I for 5th year = 10% of (5000+500+550+605+665.5) = 732.05

Difference between C.I and S.I for 5 years = (500+550+605+665.5+732.05) - 2500 = 552.55

Solution 8:

$5^1 + 1 = 6$
$5^2 - 1 = 24$
$5^3 + 1 = 126$
$5^4 - 1 = 624$
$5^5 + 1 = 3126$
$5^6 - 1 = 15624$

Solution 9:

We add and subtract 10% of a term, to obtain the next term of the series.

1000 + 10% of 1000 = 1100

1100 - 10% of 1100 = 990

990 + 10% of 990 = 1089

Solution 10:

From the below final table we can conclude that Bipul works as a teacher.

Person	School	Profession
Amit	Modern School	Administrative Officer
Bipul	DPS	Teacher
Chandan	St.Xavier	School Inspector
Dilip	Lovely Professional School	Vice Principal
Erman	Happy School	Principal
Fatikchand	Greenland School	Librarian
Ganesh	Amar Jyothi School	Peon

Solution 11:

From the above table, we can safely conclude that Chandan is a School Inspector

Solution 12:

From the above table, we can conclude that Bipul works for DPS

Solution 13:

From the above table, we can find that Amit works as Administrative Officer in the Modern School.

Solution 14:

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

Solution 15:

Conclusion I is true.
Since Q > S and P > Q, hence naturally it follows that P > S

Conclusion II is true.
Since Q ≥ R and T > Q, hence naturally it follows that R < T

Solution 16:

Conclusion I is true
From the above statement Y = W, when W = V, it implies W > U, since V > U.
Now when W > V it implies W > U; since V > U. As Y = W, we can easily replace W with Y in the above logics.

Conclusion II is false.
 From the above statement, we can reduce it as X < W ≥ V
When W = V, then X < V since X < W. but when the statement gives rise to following 2nd scenario when,
W > V, and W > X, we cant come to a definite conclusion on the relation between V and X. In such a scenario V could be less than X, or greater than X or equal to X.

Hence Conclusion II is not definite.