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Q1. Each child in a family has at least 4 brothers and 3sisters. What is the smallest number of children the family might have?

a) 7
b) 8
c) 9
d) 10

Q2. There are two cups, one containing orange juice and one containing and equal amount of lemonade. One teaspoon of the orange juice is taken and mixed with the lemonade. Then a teaspoon of this mixture is mixed back into the orange juice. Is there more lemonade in the orange juice or more orange juice in the lemonade?

a) More orange juice in the lemonade
b) More lemonade in the orange juice
c) Equal amount of each juice between the two cups
d) None of the above

Q3. If f(X) = X2 - 25 then the minimum positive value of X at which f(X) is positive is:

a) 26
b) 25
c) 6
d) 5

Q4. Four stacks containing equal number of chips are to be made from 11 orange, 9 white, 13 black and 7 yellow chips. If all of these chips are used and each stack contains at least one chip of each color, what is the maximum number of white chips in any 7 one stack?

a) 3

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b) 4
c) 5
d) 6

Q5. A 14.4 kg gas cylinder runs for 104 hours when the smaller burner on the gas stove is fully opened while it runs for 80 hours when the larger burner on the gas stove is fully opened. Which of these values are closest to the percentage difference in the usage of gas per hour, of the smaller burner over the larger burner?

a) 26.23%
b) 30%
c) 2.23%
d) 23.07%

Q6. Abdul, Mala and Chetan went bird watching. Each of them saw one bird that none of the others did. Each pair saw one bird that the third did not. And one bird was seen by all three. Of the birds Abdul saw, two were yellow. Of the birds Mala saw, three were yellow. Of the birds Chetan saw, four were yellow. How many yellow birds were seen in all? How many non-yellow birds were seen in all?

a) 7 yellow birds and 3 non yellow birds
b) 5 yellow birds and 2 non yellow birds
c) 4 yellow birds and 2 non yellow birds
d) 3 yellow birds and 2 non yellow birds

Q7. A person buys 18 local tickets for Rs. 110. Each first class ticket costs Rs.10 and each second class ticket costs Rs.3. What will another lot of 18 tickets in which the number of first class and second class tickets are interchanged cost?

a) 112
b) 118
c) 121

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d) 124

Q8. Some countries have some very interesting designs on their paper ----.

a) cash
b) coinage
c) money
d) pay

Q9. Her first novel was a huge success and it was only a few weeks after publication that the paper ---- came out.

a) side
b) edition
c) back
d) book

Q10. Not that it has happened yet but the age of the computer was meant to introduce the idea of the paper ----office.

a) minus
b) few
c) least
d) less

Q11. She was given a very decorative paper ----- to stop all her papers blowing away once the window was opened.

a) weight
b) heavy
c) block
d) stone

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Q12. The main work has just been completed and all we have to do now is finish the paper ----.

a) task
b) job
c) work
d) function

Q13. A band passes around all the wheels so that they can be turned by the driving wheel. When the driving wheel turns in the direction shown. Which way will the wheel B turn?

a) Clockwise
b) Cannot move
c) Anti-clockwise
d) Either way

Q14. Debu walks towards the east then towards North and turning 450 right walks for a while and lastly turns towards left. In which direction is he walking now?

a) North
b) East
c) South-East
d) North-East

Q15. Beautiful beaches attract people, no doubt about that. Just look at the citys most beautiful beaches, which amongst the most overcrowded places in the state.

Which of the following exhibits a pattern of reasoning similar to the one exhibited in the argument above?

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a) Moose and bear usually appear at the same drinking hole at the same time of the day. Therefore, moose and bear must be feeling thirsty at about the same time.

b) Children who are scolded severely tend to misbehave more often than other children. Hence if a child is not scolded severely, that child is less likely to misbehave.

c) During warm weather my dog suffers more fleas than during cool weather. Therefore, fleas must thrive in a warm environment.

d) Tally accounting software helps increase the work efficiency of its users. As a result, these users have more time for other activities.

Q16. Directions: This question contains six statements followed by four sets of combinations of three. Choose the set in which the statements are most logically related.

A. He was acquitted.
B. He was found guilty.
C. The person accused of a crime is either a person who always tells the truth or always lies.
D. His statement made on difference to the case.
E. He said, The person who actually committed the crime always lies.
F. He said, I am guilty.

Choose the correct answer option:

a) CFA
b) CFB
c) CEB
d) CEA

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Q17. In a row at a bus stop, A is 7th from the left and B is 9th from the right. They both interchange their positions. A becomes 11the left. How many people are there in the row?

a) 18
b) 19
c) 20
d) 21

Q18. This question consists of a number of sentences which, when properly sequenced, form a coherent paragraph. Choose the most logical order of sentences from among the four choices numbered (1) through (4).

I. The causes of success or failure are deep and complex, chance plays a part.
II. Motivation and opportunity can be supplied in good part by incentive compensation and decentralization respectively.
III. It is not easy to say why one management is successful and another is not.
IV. Experience has convinced me, however, that for those who are responsible for a business, motivation and opportunity are very important factors.

Choose the correct answer option:

a) III, IV, I, II
b) IV, III, I, II
c) III, I, IV, II
d) I, III, IV,II

Q19. In the Sunday bazzar, Jamuna sells her lemons at Rs. 0.50 for two. Her neighbor Seema has a little smaller lemons; she sells hers at Rs. 0.50 for three. After a while, when both ladies have the same number of lemons left, Seema is called away. She asks her neighbor to take care of her goods. To make things simple, Jamuna puts all lemons in one big pile, and starts selling five lemons per one rupee. When Seema returns, at the end of the day, all lemons have been sold. But when they start dividing the money, there appears to be a shortage of Rs.

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3.50. Supposing they divide the money equally, how much does Jamuna lose with deal?

a) Rs. 10.50
b) Rs. 11.50
c) Rs. 42.00
d) Rs. 52.50

Q20. Replace the question mark with the right option: 4, 32, 288, ?, 31680

a) 25600
b) 2880
c) 7420
d) 1000

Q21. In a bag containing only red and blue balls is equal to one-third the number of blue balls. Twice the number of total balls exceeds thrice the number of blue balls by 4, Find the number of red balls.

a) 9
b) 12
c) 8
d) 10

Q22. A sparrow flies from city A to city E, passing over cities B, C and D. When it reaches city B, the distance it has covered is one-third of the distance remaining to city C. When it reaches city D, the distance remaining is one-third of the distance from city C. If B and D are 15 km apart, then how far is E from A?

a) 25 km
b) 18 km
c) 24 km
d) 20 km

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Q23. Manufacturing of two automotive gear products, A and B processing in both machine 1 and 2. The time required to manufacture one unit of Product. A, on machine 1 and machine 2, are 2 hours and 4 hours respectively. Whereas, the time required for manufacturing one unit of Product B on machine 1 and machine2 on a given working day are 6 hours and 8 hours respectively. There is also a constraint that at least 8 units of A and B together should be produced in a given day. Per unit profit of A and B are Rs.7 respectively. The objective is to maximize the total amount of profit by manufacturing the two products on any given day.

The values of (X,Y) at which optimality is reached is: Choose the correct answer option:

a) (0,8)
b) (8,0)
c) Infeasible
d) Infinite

Q24. Does John get paid less than David?

(1) Anny gets paid more than David.
(2) John makes less money than Anny.

Choose the correct answer option:

a) If the question can be answered by using Statement II alone but not by Statement I alone.
b) If the question can be answered by using either statement alone.
c) If the question can be answered using both statements together, but cannot be answered using either statement alone.
d) If the question cannot be answered using both statements together.