**Quantitative Ability :**

Q1. A man has Rs. 11,200 in Rs. 100 and Rs, 500 notes. What is the ratio of the number of notes of the two types, if he has a total of 40 notes with him?

a. 3 : 2 b. 7 : 3 c. 8 : 7 d. 11 : 9

Q2.In the recently concluded CBSE Boards examination a total of 6,00,000 students appeared. 40% of them were females while the rest were males. Pass percentage among males is 75% and the overall pass percentage is 70%. What is the pass percentage for females?

a. 37.5 % b. 50% c. 62.5% d.70%

Q3.There was a fundraising effort for a party being organized by Babloo. 60% of the participants contributed 80% of the funds. The average contribution of all the people who attended is Rs. 50. What is the average contribution of the remaining 40% of the people?

a. Rs. 100 b. Rs. 150 c. Rs. 250 d. Rs. 25

Q4.A can do a piece of work in 36 days B in 54 days and C in 72 days. All three began the work together but A left 8 days and B 12 days before the completion of the work. For how many days in all did C work?

a. 24 days b. 28 days c.32 days d.36 days

Q5.A can work half as fast as B and C together. A and B together can work three times as fast as C. If all three of them complete a job in 15 days, how long would C take to complete the same work?

a.45 days b. 54 days c.60 days d. 65 days

Q6.One number is selected at random from first 25 natural numbers. What is the probability that it is a multiple of either 5 or 7?

a.2/12 b. 8/25 c. 4/25 d. None of these

Q7.A spherical metal ball of 6cm radius is melted and recast into three spherical balls. The radii of two of these balls are 3cm and 4cm. What is the radius of the third ball?

a. 4.5cm b. 5cm c. 6 cm d. 7 cm

Q8.Five tables and eight chairs cost Rs. 7,350. Three tables and five chairs cost Rs. 4,475. What is the price of one table?

a. Rs. 950 b. Rs. 325 c. Rs. 925 d. Rs. 350

Q9.Owner of a book shop does not get either profit or loss by selling 15 books for Rs. 225. How many books should he sell for the same amount to gain 25% profit?

a. 10 b. 11 c. 12 d. 13

Q10.A reduction 20% in the price of the rice enables a person to get 6 kgs more for Rs. 120. What is the initial price of rice (Rs./kg)?

a. 4 b. 5 c. 6 d. None of these

Q11.Two boats, travelling at 5 and 10 kms per hour, head directly towards each other. They begin at a distance of 20 kms from each other. How far apart are they (in kms) one minute before they collide?

a.  b.  c.  d. 

Q12.If the price of an article rose by 25% every odd year and fell by 20% every even year, what would be the percentage change after 20 years?

a. 10% increase b. 25% increase

c. No change d. 20% decrease

Q13.Three jars have their volumes in the ratio 3: 4: 5. They are full of mixtures of milk and water. The mixtures contain milk and water in the ratio of (4: 1), (3: 1) and (5: 2) respectively. The contents of all these three jars are poured into a fourth jar. The ratio of milk and water in the fourth jar is:

a. 4: 1 b. 151: 48 c. 5:2 d. 157: 53

Q14.Owing to heavy traffic on the route, a man finds that his speed is reduced by 25% today with respect to normal days. As a result, he reaches his office 20 minutes later than normal. How much time did he take today to reach the office?

a. 80 mins b. 45 mins c. 60 mins d. 75 mins

Q15.In a class of 200 students, 70 played chess, 60 played hockey, and 80 played football. Thirty played chess and football, 30 played hockey and football, 40 played chess and hockey. If 130 people played at least one game, what is the number of people who play all the three games?

a. 40 b. 20 c. 10 d. None of these

Q16.A man works twice as fast as a woman. A woman works twice as fast as a child. If 16 men can complete a job in 12 days, how many days would be required for 32 women and 64 boys together to complete the same job?

a. 2 day b. 3 days c. 4 days d. 6 days

Q17.Mayank and Amit are throwing an unbiased dice. If Mayank throws 1, what is Amit’s chances of throwing a higher number?

a. 1/5 b. 5/6 c. 2/12 d. None of these

Q18.5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If C’s income is Rs. 2000, then the total income of A, B and C is:

a. Rs. 6000 b. Rs. 14, 000 c. Rs. 18, 000 d. Rs. 20, 000

Q19.A shopkeeper professes to sell his articles at CP but gives only N grams at the place of 1000 gms. If his profit percentage is 100%, what is the value of N?

a.750 b.500 c.1000 d. Not possible

Q20.A and B walk from X to Y, a distance of 27 km at 5 kmph and 7 kmph respectively. B reaches Y and immediately turns back meeting A at Z. What is the distance from X to Z?

a. 22.5 km b. 17.5 km c. 12 km d. 20 km

**Reasoning :**

**Direction for questions 1 to 4: Read the information given below and solve the questions based on it.**

There is a family of six persons A, B, C, D, E and F in three generations. They are Lawyer, Doctor, Teacher, Salesman, Engineer and Accountant. There are two married couples in the Family. D, the Salesman is married to the Lady Teacher. The Accountant is married to the Lawyer. E, the Accountant is the son of A and brother of F. C, the Lawyer is the daughter-in-law of D. F is the unmarried Engineer. A is the grandmother of B.

Q1. How is F related to E?

a. Brother b. Sister c. Cousin d. Cannot be determined

Q2. What is the profession of B?

a. Teacher b. Doctor c. Lawyer d. Cannot be determined

Q3. What is the profession of A?

a. Lawyer b. Teacher c. Doctor d.Cannot be determined

Q4. Which of the following is one of the couples?

a. F and D b. D and B c. E and A d. None of these

Q5. Gyan Prakash left for his college in his car. He drove 15 km towards north and then 10 km towards west. He then turned to the south and covered 5 km. Further, he turned to the east and moved 8 km. Finally, he turned right and drove 10 km. how far and in which direction is he from his starting point?

a. 2 km West b. 5 km East c. 3 km North d. 6 km South

Q6. If MADRAS is coded as NBESBT. How is BOMBAY coded in that code?

a. CPNCPX b. CPNCBZ c. CPOCBZ d. CQOCBZ

Q7.In a certain code language, ‘123’ means ‘*hot filtered coffee’*. ‘356’ means *‘very hot day’* and ‘589’ means *‘day and night’*. Which digit stands for *‘very’*?

a. 9 b. 5 c. 8 d. 6

**Direction for questions 8-10: Read the information given below and solve the questions based on it.**

Classroom assignments are being made for 5 teachers – F, G, H, I and J – and 5 assistants – K, L, M, N and O. The classrooms are all in a line on one side of a corridor and are numbered consecutively 1 to 6. One teacher and one assistant will be assigned to each of the 5 classrooms, and one classroom will remain unassigned. The assignments must conform to the following conditions:

F is assigned to the same room as K.

G is not assigned to the same room as O.

I is assigned to either Room 2 or Room 3.

J is assigned to Room 5.

M is assigned to a room next to F’s room.

The unassigned room is not either one of the end rooms.

Q8. If G is assigned to Room 3, which of the following must be true?

a. F is assigned to Room 1. b. I is assigned to Room 2.

c. L is assigned to room 3. d. N is assigned to room 4.

Q9. If room 2 is the unassigned room, which of the following could be true?

a. G is assigned to an end room. b. M is assigned to an end room.

c. M is assigned to the same room as H. d. G is assigned to a room next to H’s room.

Q10. If G is assigned to room next to H’s room, which of the following must be true?

a. G is assigned to Room 1. b. L is assigned to Room 2.

c. Room 3 is unassigned room. d. Room 4 is the unassigned room.

**Directions for Qs 11-12 :** A large cube is dipped into a tub filled with color. Now the cube is taken out and it was observed that all its sides are painted. This large cube is now cut into 125 small but identical cubes.

Q11. How many of the smaller cubes have no face painted?

a. 27 b.64 c. 8 d. None of these

Q12. How many of the smaller cubes have exactly one face painted?

a. 49 b.54 c.64 d. None of these

Q13. If M x N means M is the daughter of N; M + N means M is the father of N; M % N means M is the mother of N and M - N means M is the brother of N. P % Q + R - T x K then how is P related to K?

a. Brother in Law b. Sister-in-law

c. Father-in-law d. None of these

Q14. Pointing towards a girl, Abhishek says, "This girl is the daughter of the only child of my father." What is the relation of Abhishek's wife to that girl?

a. Daughter b. Mother c. Aunt d. Sister

Q15. Munu went 15 kms to the west from his house, then turned left and walked 20 kms. She then turned East and walked 25 kms and finally turning left covered 20 kms. How far was she from her house?

a. 5 kms b. 10 kms c. 40 kms d. 80 kms