(Q.1)	Average of the runs of 133 players of a team is 38. If the average of the runs of the male players is 43 and the average of the runs of the female players is 24, then what will be the ratio of the total runs of male players and the total runs of female players respectively? (Method)			
	(A) 301:60	(B) 7:3	(C) 301:60	(D) 7:3
(Q.2)	The average marks obtained by a group of 10 students were 20. One student left the group as a result of which the average of the remaining students rose to 21. But another student joined, as a result of which the average marks of the group dropped a bit and became 20.6. What were the average marks obtained by the student who left and the one who joined? (Method)			
	(A) 14	(B) 15	(C) 14	(D) 15
(Q.3)	The average marks obtained by a group of 16 students was 20. One student left the group as a result of which the average of the remaining students rose to 21. But another student joined, as a result of which the average marks of the group dropped a bit and became 20.5. What was the average marks obtained by the student who left and the one who joined? (Method)			
	(A) 10	(B) 11	(C) 10	(D) 11
(Q.4)	Samit was given some money to take care of his travel during a 6-day sales drive he had to undertake. However, he had to increase his stay by another 4 days and as a result his average daily travel allowance went down by Rs. 56. What was the amount that was sanctioned to him in the beginning? (Method)			
	(A) 336	(B) 560	(C) 840	(D) 420
(Q.5)	The mean of the 5 smallest numbers from a group is 15 while the mean of all the 13 members of the group taken together is 17. What is the mean of the 8 largest numbers? (Method)			
	(A) 18.5	(B) 17.75	(C) 18.5	(D) 17.75
(Q.6)	Introducing a woman, a boy says, "She is the wife of my grandfather's son". How is the woman related to the boy? (IQ)			
	(A) Aunt	(B) Wife	(C) Mother	(D) Can’t decide
(Q.7)	While posing for a family photo, the father is standing to the right of the son and left of the grandmother. The mother is sitting to the left of her daughter and right of the grandmother. Who is seated in the middle? (IQ)			
	(A) Grandmother	(B) Son	(C) Father	(D) Mother
(Q.8)	If A + B means A is the brother of B; A x B means A is the son of B; and A % B means B is the daughter of A then which of the following means M is the maternal uncle of N? (IQ)			
	(A) M + O x N	(B) M % O x N + P	(C) M + O % N	(D) None of these
(Q.9)	If D is the brother of B, how B is related to C? To answer this question which of the statements is/are necessary? (IQ) 1.The son of D is the grandson of C. 2.B is the sister of D			
	(A) Only 1	(B) Only 2	(C) Either 1 or 2	(D)1 & 2 both Are required

(Q.10) If A + B means A is the father of B; A - B means A is the brother B; A % B means A is the wife of B and A x B means A is the mother of B, which of the following shows that M is the maternal grandmother of T? (IQ)

(A) M x N % S + T (B) M x N - S % T (C) M x S - N % T (D) M x N x S % T

(Q.11) In a certain code language, if the value of 'BLOCK' = 13 and 'CURTAIN' = 27, then what is the value of the word 'SCIENCE'? (IQ)

(A) 32 (B) 36 (C) 38 (D) 34

(Q.12) In a certain code language CONCENTRATION is written as QQJGZIGQGDMLX. How will NITRIFICATION be written in that code language? (IQ)

(A) QQJGZXRIKSGRM (B) QQJGYXRIKSGRM (C) QQJGZXRIKSGRN (D) QQJGZRIKSGSM

(Q.13) In a certain code language, 'TAPE' is written as 'SUZBOQDF'. How will 'MOCK' be written as in that language? (IQ)

(A) MOPQDELM (B) LNNPBDJL (C) LOPQBCKL (D) KNNPBEBL

(Q.14) In a certain code 'CERTAIN' is coded as 'BFQUZJM'. How is 'MUNDANE' coded in that code? (IQ)

(A) NTOCNBF (B) NTCOMBF (C) LTMCZOF (D) LVMEZOD

(Q.15) In a certain code 'SEQUENCE' is coded as 'FDOFVRFT. How is 'CHILDREN' coded in that code? (IQ)

(A) OFESJMID (B) OFSEMJID (C) OFSEJIMD (D) OFSEJMID

(Q.16) A man starts from point 'O' travels 20 km towards East to reach point 'A', turns right and travels 10 km to reach point 'B', turns right and travels 9 km to reach point 'C', turns right and travels 5 km to reach point 'D', turns left and travels 12 km to reach point 'E' and then turns right and travels 6 km to reach point 'F'?

What is the shortest distance between his initial and final points? (Method)

(A) √145 (B) 13 (C) √20 (D) √2

(Q-17) A man starts from point 'O', travels 20 km towards East to reach point 'A', turns right and travels 10 km to reach point 'B', turns right and travels 9 km to reach point 'C', turns right and travels 5 km to reach point 'D', turns left and travels 12 km to reach point 'E' and then turns right and travels 6 km to reach point 'F'.

What is the shortest distance between point 'A' and point 'D'? (Method)

(A) 5√17 (B) √106 (C) √181 (D) 13

(Q.18) Prabhu travelled from his house a distance of 20kms to his friend's house. After some time he left his friends house and took a turn towards right and travelled 15 kms to reach a park. After resting for a while, he again started and turned to right and travelled 18 kms to reach a petrol bunk. From there he again turned right and covered a distance of 15 kms. How many km more he has to travel to reach home? (IQ)

(A) 2 kms (B) 18 kms (C) 21 kms (D) 23 kms

(Q-19) Two taxis T and U start from the same stand. Taxi T travels 1 km South, then turns to its right and travels a further 3.5 km. Meanwhile taxi U travels 2.5 km East, then turns North and travels 4 km, then it turns to its left and travels 6 km. Where is taxi U with respect to taxi T? (IQ)

(A) 3 km North (B) 5 km South (C) 5 km North (D) 3 km South

(Q.20) Starting from point O facing West a man walks 4 kilometre reach point A, turns right walks 4 kilometre reach point B, turn right walks 4 kilometre reach point C, turns right walks 3 kilometre reach point D, turns left walks 4 kilometre reach point E, turns right walks 5 kilometre reach point F. At point C, the man is facing ..... direction. (IQ)

(A) East (B) South (C) North (D) West

(Q-21) A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm3, then the weight of the pipe is: (Method)

(A) 3.6 kg (B) 3.696 kg (C) 36 kg (D) 36.9 kg

(Q-22) The area of a trapezium is 1240 m2. The distance between the two pairs of parallel sides is given to be 20 m. If the length of one of the parallel sides is 60 m, find the length of the other parallel side. (Method)

(A) 68 m (B) 54 m (C) 64 m (D) 70 m

(Q-23) How many cubes with an edge length of 2 cm can fit inside a cuboid with dimensions of length, breadth and height given to be 8 m, 6 m, and 10 m, respectively? (Method)

(A) 60000 (B) 60000000 (C) 600000 (D) 6000

(Q-24) A rectangular field 50 metres long and 42 metres broad contains a rectangular lawn inside it surrounded by a gravel path of uniform width. If the width of the path is 6 m, then the area of the path is (Method)

(A) 240 m square (B) 480 m square (C) 720 m square (D) 960 m square

(Q-25) The dimensions of a field are 15 m by 12 m. A pit 8 m long, 2.5 m wide and 2 m deep is dug in one corner of the field and the earth removed is evenly spread over the remaining area of the field. The level of the field is raised by (Method)

(A) 25 cm (B) 15 cm (C) 20 cm (D) 200/9 cm

(Q-26) Two containers of equal volume contains milk and water in the ratio 3: 5 and 5: 3, respectively. If the contents of both containers are emptied into a third one, what would be the ratio of milk to water in that container? (Method)

(A) 1: 1 (B) 9:25 (C) 25: 9 (D) None of these

(Q-27) A jar contained a mixture of two liquids A and B in the ratio 4 : 1. When 10 litres of the mixture was taken out and 10 litres of liquid B was poured into the jar, this ratio became 2 : 3. The quantity of liquid A contained in the jar initially was (Method)

(A) 16 litres (B) 40 litres (C) 8 litres (D) 4 litres

(Q-28) Five litres of wine is removed from a cask full of wine and is replaced with water. Five litres of this mixture is then removed and replaced with water. If the ratio of wine to water in the cask is now 16 : 9, how much wine did the cask hold? (Method)

(A) 25 litres (B) 50 litres (C) 150 litres (D) 175 litres

(Q-29) In an alloy, the ratio of copper and zinc is 5 : 2. If 1.250 kg of zinc is mixed in 17 kg 500 g of alloy, then the ratio of copper and zinc will be (Method)

(A) 3:2 (B) 1:2 (C) 2:3 (D) 2:1

(Q-30) There are three containers of equal capacity. The ratio of Sulphuric acid to water in the first container is 3 : 2, that in the second container is 7 : 3 and in the third container it is 11 : 4. If all the liquids are mixed together, then the ratio of Sulphuric acid to water in the mixture will be : (Method)

(A) 60:29 (B) 59:29 (C) 61:28 (D) 61:29

(Q-31) 8, 4, 4, 6, 12, ? (IQ)

(A) 39 (B) 27 (C) 24 (D) 30

(Q-32) 69, 77.28, 86.55, 96.936, ? (IQ)

(A) 102.546 (B) 108.568 (C) 105.675 (D) 119.876

(Q-33) 100, 50, 52, 26, 28, ? , 16, 8 (IQ)

(A) 14 (B) 30 (C) 32 (D) 38

(Q-34) 28, 2, 5, 21, 18, 5, 14, ?, ? (IQ)

(A) 11,5 (B) 10,7 (C) 11,8 (D) 5,3

(Q-35) Find the number which would come in place of question mark 1, 7, 37,187, 937, ?. (IQ)

(A) 4687 (B) 1823 (C) 5687 (D) 5000

(Q-36) The ratio of incomes of A and B is 5:6 and the ratio of their savings is 15:16. If the income of A equals the expenditure of B, then the ratio of expenditures of A and B is: (Method)

(A) 12:17 (B) 15:17 (C) 15:16 (D) 13:16

(Q-37) In an election of 2 candidates, 15% of the votes were invalid. The first candidate got 40% of the total number of valid votes and still lost by 3060 votes. Find the total number of votes polled? (Method)

(A) 25000 (B) 17000 (C) 18000 (D) 17500

(Q-38) A number is first increased by 16% and then increased by 14%. The number, so obtained, is now decreased by 30%. What is the net increase or decrease percent in the original number (nearest to an integer)? (Method)

(A) 6% increase (B) 7% decrease (C) Remains Same (D) 9% decrease

(Q-39) In an examination, A obtained 10% more marks than B, B obtained 20% more marks than C and C obtained 32% less marks than D. If A obtained 272 more marks than C, then the marks obtained by B is? (Method)

(A) 850 (B) 816 (C) 1020 (D) 952

(Q-40) A seller gives 25% discount on an item, if he marked up the price of item 25% above C.P. and while selling, he cheats the buyer by giving 15% less in weight. Find his overall profit %. (approx.) (Method)

(A) 0.1 (B) 0.15 (C) 0.18 (D) 0.12

(Q-41) In how many different ways can the letters of the word 'THERAPY' be arranged so that the vowels never come together? (Method)

(A) 2400 (B) 3600 (C) 4800 (D) 7200

(Q-42) What is the rank of a word TIGER, if all possible permutations of the word TIGER are arranged in dictionary order. (Method)

(A) 99 (B) 111 (C) 110 (D) 109

(Q-43) A four digit number is formed using digits 1, 3, 5, and 7 without repeating any one of them. What is the sum of all such possible numbers? (Method)

(A) 106656 (B) 666660 (C) 106666 (D) 105556

(Q-44) Calculate the number of diagonals which can be drawn in a hexagon? (IQ)

(A) 15 (B) 9 (C) 7 (D) 12

(Q-45) How many combinations are possible while selecting four letters from the word 'SMOKEJACK' with the condition that 'J' must appear in it? (Method)

(A) 81 (B) 71 (C) 61 (D) 41

(Q-46) A jar contains 10 red marbles, 8 blue marbles, and 6 green marbles. If three marbles are drawn without replacement, what is the probability of getting one marble of each color in the first three draws? (Method)

(A) 40/78 (B) 60/77 (C) 10/253 (D) 30/78

(Q-47) A word consists of 9 letters; 5 consonants and 4 vowels. Three letters are choosen at random. What is the probability that more than one vowel will be selected? (Method)

(A) 13/42 (B) 17/42 (C) 5/42 (D) 3/14

(Q-48) Out of 17 applicants 8 boys and 9 girls. Two persons are to be selected for the job. Find the probability that at least one of the selected persons will be a girl. (Method)

(A) 19/34 (B) 4/5 (C) 20/34 (D) 25/34

(Q-49) Four dice are thrown simultaneously. Find the probability that all of them show the same face. (Method)

(A) 1/216 (B) 1/36 (C) 2/216 (D) 4/216

(Q-50) fifteen persons are sitting around a circular table facing the centre. What is the probability that three particular persons sit together? (Method)

(A) 3/91 (B) 2/73 (C) 1/91 (D) 3/73

(Q-51) The average age of Sita and Gita is 30 years. If Rita replaces Sita, then the average age will become 28 years and if Rita replaces Gita, then the average age will become 32 years. What are the respective ages (in years) of Sita, Gita and Rita? (IQ)

(A) 40, 44, 36 (B) 44, 40, 36 (C) 34, 26, 30 (D) 30, 26, 34

(Q-52) Average age of 4 daughters of a family is 12 years. The average age of daughters and their parents is 26 years. If the mother is 4 years older than the father, then what is the age (in years) of the father? (IQ)

(A) 56 (B) 52 (C) 48 (D) 44

(Q-53) Monika's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents? (IQ)

(A) 3 years (B) 4 years (C) 2 years (D) 6 years

(Q-54) Average age of 5 students of a school is 14 years. The average age of students and their Mathematics and science teachers is 30 years. If the age of science teacher is 6 years more than the age of Mathematics teacher, then what is the age (in years) of Mathematics teacher? (IQ)

(A) 67 (B) 68 (C) 56 (D) 74

(Q-55) The difference between the ages of two sisters is 4 years when father's age is 54. Father is elder by 2 years to mother. Younger sister's age is half of mother's age. Find the age of elder sister. (IQ)

(A) 26 (B) 27 (C) 29 (D) 30

(Q-56) In an army selection process, the ratio of selected to unselected candidates was 4:1. If 90 less had applied and 20 less selected, the ratio of selected to unselected would have been 5:1. How many candidates had applied for the process? (Method)

(A) 1650 (B) 3300 (C) 825 (D) 4950

(Q-57) The ratio of incomes of C and D is 3 : 2. Ratio of income of D and E is 5 : 4. If one-third of C's income is Rs 4000 more than the half of E's income, then what is the D's income (in Rs)? (Method)

(A) 40000 (B) 3300 (C) 50000 (D) 60000

(Q-58) Monthly salaries of Pia and Som are in the respective ratio of 5: 4. Pia, from her monthly salary, gives th to her mother. 15% towards her sister's tuition fees, 18% towards a loan and she shops with the remaining amount which was Rs. 2,100. What is the monthly salary of Som? (Method)

(A) Rs.25,000 (B) Rs.30,000 (C) Rs.15,000 (D) Rs.24,000

(Q-59) Each question contains Quantity I and Quantity II. Read the contents carefully and answer your questions accordingly.

Quantity I: there are three numbers in the ratio 5:6:10. The sum of the largest and the smallest numbers is 126 more than the other number. Find the largest number?

Quantity II: 12% of first number is equal to 25 % second number. The difference of these two numbers is 78. Then find the largest number? (Method)

(A) Quantity I > Quantity I (B) Quantity I ≥ Quantity II (C) Quantity I < Quantity II (D) Quantity I < Quantity II

(Q-60) Average of the weight of 138 students of a school is 45 kg. If the average weight of the boys is 49 kg and the average weight of the girls is 25 kg, then what will be the respective ratio of the total weight of boys and the total weight of girls? (Method)

(A) 5 : 43 (B) 49 : 5 (C) 3 : 49 (D) 7 : 1

(Q-61)	A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed: (Method)			
	(A) 30 birds	(B) 60 birds	(C) 72 birds	(D) 90 birds
(Q-62)	The highest score in an inning was 3/11 of the total and the next highest was 3/11 of the reminder . If the score differ by 9, the total score was: (Method)			
	(A) 110	(B) 121	(C) 132	(D) 143
(Q-63)	Water boils at 212°F or 100°C and melts at 32°F or 0°C . If the temparature of the particular day is 35°C , it is equal to: (IQ)			
	(A) 85°F	(B) 95°F	(C) 96°F	(D) 97°F
(Q-64)	A secret can be told to only 3 persons in 3 minutes. Each person in turn tells 3 other persons in the next 3 minutes and the processes continues accordingly. In 30 minutes how many persons can be told this secret in this way? (Method)			
	(A) 88572	(B) 77854	(C) 99584	(D) 55654
(Q-65)	Mr. Ankit is on tour to Siachin and he has Rs. 360 for his expenditure. If he exceeds his tour by 4 days, he must trim down his daily expenditure by Rs.3. For how many days is Mr. Ankit is on tour? (Method)			
	(A) 20	(B) 22	(C) 24	(D) 26
(Q-66)	4 men and 5 women can complete a work in 15 days, whereas 9 men and 6 women can do it in 10 days. To complete the same work in 7 days, how many women should assist 4 men? (Method)			
	(A) 11	(B) 14	(C) 12	(D) 13
(Q-67)	Pipes A and B are filling pipes while pipe C is an emptying pipe. A and B can fill a tank in 72 and 90 minutes respectively. When all the three pipes are opened together, the tank gets filled in 2 hours. A and B are opened together for 12 minutes, then closed and C is opened. The tank will be empty after? (Method)			
	(A) 15 minutes	(B) 18 minutes	(C) 12 minutes	(D) 16 minutes
(Q-68)	A and B can together complete a task in 18 hours. After 6 hours A leaves. B takes 36 hours to finish rest of the task. How many hours would A have taken to do the task if he worked alone? (Method)			
	(A) 54	(B) 45	(C) 21	(D) 27
(Q-69)	A does 2/5 of a work in 9 days. Then B joined him and they together completed the remaining work in 6 days. B alone can finish the whole work in? (Method)			
	(A) 22 days	(B) 25 days	(C) 10 days	(D) 18 days
(Q-70)	A, B and C can do a piece of work in 30, 20 and 10 days respectively. A is assisted by B on one day and C on the next day alternately. How long would the work take to finish? (Method)			
	(A) 9 3/8 days	(B) 4 8/9 days	(C) 8 4/13 days	(D) 4 9/13 days
(Q-71)	Two stations P and Q are 110 km apart on a straight track. One train starts from P at 7 a.m. and travels towards Q at 20 kmph. Another train starts from Q at 8 a.m. and travels towards P at a speed of 25 kmph. At what time will they meet? (Method)			
	(A) 10.3	(B) 10	(C) 8.45	(D) 9.3

(Q-72)	A train travelling at 48 kmph crosses another train, having half its length and travelling in opposite direction at 42 kmph, in 12 sec. It also covers a bridge in 45 sec. Find the length of the bridge? (Method)			
	(A) 250 mts	(B) 400 mts	(C) 320 mts	(D) 390 mts
(Q-73)	A train travels 360 km at a uniform speed. If the speed had been 5 km/h more, it would have taken 1 hour less for the same journey. Find the speed of the train? (Method)			
	(A) 42 kmph	(B) 43 kmph	(C) 40 kmph	(D) 45 kmph
(Q-74)	Two cogged wheels of which one has 32 cogs and other 54 cogs, work into each other. If the latter turns 80 times in three quarters of a minute, how often does the other turn in 8 seconds? (Method)			
	(A) 48	(B) 24	(C) 38	(D) 36
(Q-75)	A train for Fathehpur leaves for every 2 hrs 30 min from Agra station. An announcement was made that train left 37 mins ago and next train comes at 17:00hrs. At what time was the announcement made? (Method)			
	(A) 15:07 hrs	(B) 15:20 hrs	(C) 15:05 hrs	(D) 15:00 hrs