Section 1: Quantitative Ability (35 questions)

1. A test has 100 questions. A student scores 2 marks for a correct answer, 1 for a wrong answer, 0 for not attempting a question. If the net score of a student is 32, the number of questions not attempted is

 (a) 26   (b) 32   (c) 36   (d) 19

2. At the end of year 1998, Shepard bought nine dozen goats. Henceforth, every year he added p% of the goats at the beginning of the year and sold q% of the goats at the end of the year where p>0 and q>0. If Shepard had nine dozen goats at the end of year 2002, after making the sales for that year, which of the following is true?

(a) p = q   (b) p < q   (c) p > q   (d) p = q/2

3. In a 4000 meter race around a circular stadium having a circumference of 1000 meters, the fastest runner and the slowest runner reach the same point at the end of the 5th minute, for the first time after the start of the race. All the runners have the same staring point and each runner maintains a uniform speed throughout the race. If the fastest runner runs at twice the speed of the slowest runner, what is the time taken by the fastest runner to finish the race?

(a) 20 min   (b) 15 min   (c) 10 min   (d) 5 min

4. A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides:

(a) 56   (b) 52   (c) 44   (d) 6

5. Average age of students of an adult school is 40 years.120 new students whose average age is 32 years joined the school. As a result the average age is decreased by 4 years. Find the number of students of the school after joining of the new students:

(a) 1200   (b) 120   (c) 360   (d) 240

6. When Rs 250 added to 1/4th of a given amount of money makes it smaller than 1/3rd of the given amount of money by Rs 100. What is the given amount of money?

(a) Rs 350   (b) Rs 600   (c) Rs 4200   (d) Rs 360

7. The rate of failure in an examination is 39.25%. Find the least number of total candidates appeared in the examination.

(a) 500   (b) 400   (c) 125   (d) 260

8. 0.8 portion of a tank is filled with water. If 25 liters of water is taken out from the tank, 14 liters of excess water over the half filled up tank remains in it. Find the capacity of the tank.

(a) 100 liters (b) 130 liters (c) 200 liters   (d) 150 liters

9. The ratio of ages of two persons is 4: 7 and one is 30 years older than the other. Find the sum of their ages.

(a) 210 years (b) 110 years (c) 90 years   (d) 140 years

10. The number of times a bucket of capacity 4 liters to be used to fill up a tank is less than the number of times another bucket of capacity 3 liters used for the same purpose by 4. What is the capacity of the tank?

(a) 360 liters (b) 256 liters (c) 48 liters   (d) 525 liters

11. The ratio of the age of a gentleman and his wife is 4: 3. After 4 years this ratio will be 9: 7. If at

the time of their marriage the ratio was 5: 3, how many years ago they were married?

(a) 10 years   (b) 8 years   (c) 12 years   (d) 15 years

12. A certain quantity of rice is spent daily for 30 students in a hostel. One day some students were absent as a result, the quantity of rice has been spent in the ratio of 6 : 5. How many students were present on that day?

(a) 24   (b) 20   (c) 15   (d) 25

13. The ratio of daily wages of two workers is 4 : 3 and one gets daily Rs 9 more than the other, what are their daily wages?

(a) Rs 32 & Rs 24   (b) Rs 60 & Rs 45   (c) Rs 80 & Rs 60   (d) Rs 36 & Rs 27

14. Find the ratio of marked price and selling price if there is discount of 15%.

(a) 17 : 20   (b) 20 : 17   (c) 2 : 25   (d) 25 : 2

15. What sum of money is to be divided among 3 men in the ratio 3 : 4 : 5 so that the third man receives Rs 10 only.

(a) Rs 56   (b) Rs 84   (c) Rs 120   (d) Rs 2

16. Two identical bottles A and B of sweet drinks contain sugar such that 30% of sugar in A is equal to 40% sugar in B. The ratio of sugar in the two bottles is:

(a) 4 : 3   (b) 3 : 4   (c) 12 : 1   (d) 1 : 12

17. A hawker purchased oranges at the rate of 4 oranges in a rupee, but he sells at the rate of 5 oranges in a rupee. His loss is:

(a) 20%   (b) 25%   (c) 50%   (d) 100%

18. A businessman purchased 35 kg dal of Rs 525 and sells it at the rate of Rs 18 per kg. Then the rate of profit or loss is:

(a) 20% profit (b) 25% loss (c) 25% profit (d) 20% loss

19. The difference and the product of two numbers are 32 and 2145 respectively. Their sum is:

(a) 89   (b) 98   (c) 78   (d) 87

20. The sum of the present age of the father and his daughter is 42 years. 7 years later, the father will be 3 times old than the daughter. The present age of the father is:

(a) 35   (b) 28   (c) 32   (d) 3

21. The average of the first four of five numbers is 40 and that of the last four numbers is 60. The difference of the last and the first number is:

(a) 400   (b) 200   (c) 40   (d) 8

22. 20 laborers can do a work in 20 days if everybody works for 6 hours daily. Then 25 laborers can do the same work in 12 days by working daily for:

(a) 8 hours   (b) 6 hours   (c) 4 hours   (d) 10 hours

23. If 20% of A = 30% of B = 1/6th of C, then A : B : C is:

(a) 2 : 3 : 16   (b) 3 : 2 : 16   (c) 10 : 15 : 18 (d) 15 : 10 : 1

24. A man retired from his service at the age of 60. He served for 3/5th years of his retirement age. He joined his job at the age of:

(a) 36 years   (b) 24 years   (c) 18 years   (d) 30 years

25. A number is increased consecutively two times by 20% each. The original number is actually increased by:

(a) 40%   (b) 42%   (c) 44%   (d) 20%

26. 42 oranges are distributed among some boys and girls. If each boy gets 3 oranges, then each girl gets 6. But if each boy gets 6 and each girl gets 3, it needs 6 more. The number of girls is:

(a) 4   (b) 6   (c) 8   (d) 10

27. An alloy of zinc and copper contains the metals in the ratio 5 : 3. The quantity of zinc to be added to 16 kg of the alloy so that the ratio of the metal may be 9:7 is:

(a) 2 kg   (b) 4 kg   (c) 3 kg   (d) 8 kg

28. The numbers which divide 80 in such a way that the sum of their reciprocals is 4/75 are:

(a) 40, 40   (b) 35, 45   (c) 30, 50   (d) 60, 20

29. The owner of an electronics shop charges his customer 22% more than the cost price. If a customer paid Rs 10,980 for a DVD Player, then what was the cost price of the DVD Player?

(a) Rs 8,000   (b) Rs 8,800   (c) Rs 9,500   (d) Rs 9,000

30. In an examination it is required to get 40% of the aggregate marks to pass. A student gets 261 marks and is declared failed by 4% marks. What are the maximum aggregate marks a student can get?

(a) 700   (b) 730   (c) 725   (d) 765

31. A canteen requires 112 kg of wheat for a week. How many kg of wheat will it require for 69 days?

(a) 1,204 kg   (b) 1,401 kg   (c) 1,104 kg   (d) 1,014 kg

32. The difference between 42% of a number and 28% of the same number is 210. What is 59% of that number?

(a) 630   (b) 885   (c) 420   (d) 900

33. Pinku, Rinku and Tinku divide an amount of Rs 4,200 amongst themselves in the ratio of 7 : 8 : 6 respectively. If an amount of Rs 200 is added to each of their shares, what will be the new respective ratio of their shares of amount?

(a) 8 : 9 : 6   (b) 7 : 9 : 5   (c) 7 : 8 : 6   (d) 8 : 9 : 7

34. A bus covers a distance of 2,924 km in 43 hours. What is the speed of the bus?

(a) 72 km/hr (b) 60 km/hr   (c) 68 km/hr (d) Cannot be determined

35. Three bulbs are chosen at random from a collection of 8 bulbs of which five are good bulbs. Find the probability that the room is lighted.

a) 1/56   b) 55/56   c) 53/56   d) 41/143

Section 2: Logical reasoning (35 questions)

Direction for questions 1-5: In each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

1.

Question: How is Sulekha related to Nandini
? Statements:

    I.   Sulekha's husband is the only son of Nandini's mother. II.
    Sulekha's brother and Nandini's husband are cousins.

2.

Question: Can Ritesh retire from office X in January 2006, with full pension
benefits? Statements:

    I.   Ritesh will complete 30 years of service in office X in April 2000 and desires to retire.

    II.   As per office X rules, an employee has to complete minimum 30 years of service and attain age of 60. Ritesh has 3 years to complete age of 60.

3.

Question: What is the code for 'or' in the code
language? Statements:

    I.   'nik sa te' means 'right or wrong', 'ro da nik' means 'he is right' and 'fe te ro' means 'that is wrong'.

    II.   'pa nik la' means 'that right man', 'sa ne pa' means 'this or that' and 'ne ka re' means 'tell this there'.

4.

Question: Madan is elder than Kamal and Sharad is younger than Arvind. Who among them is the youngest?

Statements:

    I.   Sharad is younger than Madan.
    II. Arvind is younger than Kamal.

5.

Question: On which date in August was Kapil
born? Statements:

    I.   Kapil's mother remembers that Kapil was born before nineteenth but after fifteenth. II.
    Kapil's brother remembers that Kapil was born before seventeenth but after twelfth.

6. Pointing to a lady a person said, "The son of her only brother is the brother of my wife." How is the lady related to the person?

a) Maternal aunt   b)Grandmother   c)Sister of father-in-law   d)None of these

7. If in a certain language, ENTRY is coded as 12345 and STEADY is coded as 931785, then TENANT will be coded as

a) 956169   b) 196247   c) 352123   d) 312723

8. In a code, CORNER is written as GSVRIV. How can CENTRAL be written in that code?

a) DFOUSBM b) GIRXVEP   c) GNFJKER   d) None of these

9. Amit said - "This girl is the wife of the grandson of my mother". How is Amit related to the girl?

a) Brother   b) Grandfather c) Husband   d) Father-in-law

Directions for questions 10 – 12: Three men (Tom, Peter and Jack) and three women (Eliza, Anne and Karen) are spending a few months at a hillside. They are to stay in a row of nine cottages, each one living in his or her own cottage. There are no others staying in the same row of houses.

      1. Anne, Tom and Jack do not want to stay in any cottage, which is at the end of the row.
      2. Eliza and Anne are unwilling to stay besides any occupied cottage..
      3. Karen is next to Peter and Jack.
      4. Between Anne and Jack's cottage there is just one vacant house.
      5. None of the girls occupy adjacent cottages.
      6. The house occupied by Tom is next to an end cottage.

10. Which of the above statements can be said to have been derived from two other statements?
(a) Statement 1   (b) Statement 2   (c) Statement 3   (d) Statement 5

11. How many of them occupy cottages next to a vacant cottage?

(a) 2   (b) 3   (c) 4   (d) 5

12. Which among these statement(s) are true?

      I. Anne is between Eliza and Jack.
      II. At the most four persons can have occupied cottages on either side of them. . III. Tom stays besides Peter.

(a) I only   (b) II only   (c) I and III only   (d) II and III only

13. Robin earns 30% more than Erica. Charles earns 60% more than Erica. How much % is the wages earned by Charles more than that earned by Robin?

A. 23%   B. 18.75%   C. 30%   D. 50%

Directions for question 14 - 18: There is a five storey building including the ground floor and each floor has only one flat. All these flats have been occupied by the five Bank Probationary Officers. Each officer owns a different car. The cars are: Indica, Ikon, Indigo, Elentra and Santro. The five officers: A, B, X, Y and Z are employed in the different banks, viz., State Bank of India (SBI), Punjab National Bank (PNB), UCO Bank, ICICI Bank and HDFC Bank but not necessarily in the same order. Mr. X works in HDFC Bank and lives on the ground floor. The officer who lives on fourth (top) floor does not own Elentra or Santro. Mr. B works in PNB and owns Elentra car. The officer who works in UCO Bank and lives on second floor owns Indica car. Mr. Y lives on third floor and owns Indigo. Mr. Z works in ICICI Bank and Mr. Y works in State Bank of India. Use the information for answering the following questions.

14. Who among the following owns Santro car?

a) A   b) B   c) X   d) None of these

15. Who lives on the second floor?

a) X   b) Y   c) Z   d) A

16. On which floor does B lives?

a) First   b) Second   c) Third   d) Fourth

17. Which among the following owns Indica car?

a) X   b) A   c) Y   d) B

18. Which among the following of the combination of officer and car is correct?

a) Mr. X-------- Elantara   b) Mr. Y-------- Ikon   c) Mr.Z-------- Ikon   d) Mr. A------ Santro

Directions for questions 19 - 22: Once, Mrs. Singh, Mrs. Mahajan, Mrs. Kumar and Mrs. Sharma went shopping together, each with two activities to perform. One of the women had to visit the hardware shop, two needed to go to the bank, two needed to go to the butcher shop, and all but one needed to buy groceries. Their shopping was simplified quite a bit by the fact that they lived in a small town which had only one store of each kind and only one bank. As a result they were soon done and on their way home if:

Archana didn't go into the grocery store Both Isha and Mrs. Sharmabought meat.

Tanya came home with more money then she had when she started.

Mrs. Mahajan didn't go into any of the places where Ritu or Mrs. Kumar went. Answer the following question based on the above information.

19. Who did not go to the grocery store?

a) Mrs. Singh b) Mrs. Mahajan   c) Mrs. Kumar   d) Mrs. Sharma

20. What is the first name of Mrs. Kumar?

a) Archana   b) Tanya   c) Isha   d) Can't be determined

21. Which two places are visited by Mrs. Singh?

a) Grocery and Meat b) Hardware and Meat c) Grocery and Bank d) Meat and Bank

22. Suresh is taller than Prabhu but shorter than Ram; Prabhu is as tall as Neeraj but taller than Nilesh. Which of the following statements is definitely true for Neeraj?

a) Neeraj is shorter than Nilesh   b) Neeraj is the tallest

c)Neeraj is the shortest   d) Neeraj is taller than Nilesh

Directions for questions 23 to 27: K, L, M, N, P, Q, R, S, U and W are the only ten members in a department. There is a proposal to form a team from within the members of the department, subject to the following conditions:

A team must include exactly one among P, R, and
S. A team must include either M or Q, but not both.
If a team includes K, then it must also include L, and vice versa.
If a team includes one among S, U, and W, then it must also include the other two.CAT 2006 L and N cannot be members of the same team.
L and U cannot be members of the same team.

The size of a team is defined as the number of members in the team.

23. What could be the size of a team that includes K?
a) 2 or 3 b) 2 or 4 c) 3 or 4 d) Only 4

24. In how many ways a team can be constituted so that the team includes
N? a) 2 b) 3 c) 4 d) 6

25. What would be the size of the largest possible team?
a) 8   b) 7   c) 6   d) 5

26. Who can be a member of a team of size 5?
a) K   b) L   c) M   d) P

27. Who cannot be a member of a team of size 3?

a) L b) M c) N d) P

28. If in a certain code 'RANGE' is coded as 12345 and 'RANDOM' is coded as 123678, then the code for the word 'MANGO' would be

a) 82543   b) 82346   c) 84563   d) 82357

29. Which word does NOT belong with the others?

a) leopard   b) cougar   c) elephant   d) lion

30. Arrange the words given below in a meaningful sequence.

1. Wall   2. Clay   3. House   4. Room   5. Bricks

a) 5, 2, 1, 4, 3   b) 2, 5, 4, 1, 3   c) 2, 5, 1, 4, 3   d) 1, 2, 3, 4, 5

31. Arrange the words given below in a meaningful sequence.

1. Yarn   2. Plant   3.Saree   4. Cotton   5. Cloth

a) 2, 4, 5, 1, 3   b) 2, 4, 3, 5, 1   c) 2, 4, 1, 5, 3   d) 2, 4, 5, 3, 1

Direction for questions 32 to 35: Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

32. 9, 27, 31, 155, 161, 1127, ?

a) 316   b) 1135   c) 1288   d) 2254

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33. 2, 1, 2, 4, 4, 5, 6, 7, 8, 8, 10, 11, ?

a) 9   b) 10   c) 11   d) 12

34. 563, 647, 479, 815, ?

a) 672   b) 386   c) 279   d) 143

35. 28, 33, 31, 36, ?, 39

a) 32   b) 34   c) 38   d) 40