1. A family, planning a weekend trip, decides to spend not more than a total of 8 hours driving. By leaving early in the morning, they can average 40 miles per hour on the way to their destination. Due to the heavy Sunday traffic, they can average only 30 miles per hour on the return trip. What is the farthest distance from home they can plan to go?

(a) 120 miles or less
(b) Between 120and 140 miles
(c) 140 miles
(d) Between 140 and 160 miles
(e) 160 miles or more

2. A car is filled with four and half gallons of fuel for a round trip. If the amount of fuel taken while going is 1/4 more than the amount taken for coming, what is the amount of fuel consumed while coming back?

(a) Less than 2 gallons
(b) 2 gallons
(c) 2 1/2 gallons
(d) 3 gallons
(e) More than 3 gallons

3. A 3-gallon mixture contains one part S and two parts R. In order to change it to a mixture containing 25% S, how much R should be added?

(a) 1/2 gallon
(b) 2/3 gallon
(c) 3/4 gallon
(d) 1 gallon
(e) 1 1/2 gallon

4. A tree grows only 3/5 as fast as the one beside it. In four years the combined growth of the two trees is eight feet.   How much does the shorter tree grow in two years?

(a) Less than 2 feet
(b) 2 feet
(c) 2 1/2 feet
(d) 3 feet
(e) more than 3 feet.

5. Wind flows at 160 miles in 330 minutes, for traveling 80 miles how much time does it require?
(a) 1 hour 30 minutes
(b) 1 hour 45 minutes
(c) 2 hours
(d) 2 hours 45 minutes
(e) 3 hours

6. A stationary engine has enough fuel to run 12 hours when its tank is 4/5 full. How long will it run when the tank is 1/3 full?
(a) Less than 2 hours
(b) 2 hours
(c) 3 hours
(d) 4 hours
(e) 5 hours

7. If A is traveling at 72 km per hour on a highway. B is traveling at a speed of 25 meters per second on a highway. What is the difference in their speeds in meters per second?
(a) 1/2 m/sec
(b) 1 m/sec
(c) 1 1/2 m/sec
(d) 2 m/sec
(e) 3 m/sec

8. A salesperson by mistake multiplied a number and got the answer as 3, instead of dividing the number by 3. What is the answer he should have actually got?
(a) 0
(b) 1/3
(c) 1
(d) 2
(e) 3

9. If the length of a rectangle is increased by 30% and the width is decreased by 20%, then the area is increased by...
(a) 10%
(b) 5%
(c) 4%
(d) 20%
(e) 25%

10. In the class of 40 students, 30 speak Hindi and 20 speak English. What is the lowest possible number of students who speak both the languages?
(a) 5
(b) 20
(c) 15
(d) 10
(e) 30

11. The most economical prices among the following prices is:

(a) 10 kilo for Rs.160
(b) 2 kilo for Rs.30
(c) 4 kilo for Rs.70
(d) 20 kilo for Rs.340
(e) 8 kilo for Rs.130

12. A truck contains 150 small packages, some weighing 1 kg each and some weighing 2 kg each. how many packages weighing 2 kg each are in the truck if the total weight of all

the packages is 264 kg?

   (a) 36   (b) 52   (c) 88   (d) 124   (e) 114

13. A man was arrested for exceeding the speed limit by 10 miles an hour. A second man was charged with exceeding the same limit by twice as much. The second man was driving 35 miles per hour. What was the speed limit?

   (a) 10 miles per hour   (b) 15 miles per hour   (c) 20 miles per hour
   (d) 25 miles per hour   (e) 30 miles per hour

14. One year ago Pandit was three times his sister's age. Next year he will be only twice her age. How old will Pandit be after five years?

   (a) 8   (b) 12   (c) 11   (d) 13   (e) 15

15. If two pencils cost 8 cents, then how much do 5 pencils cost?

   (a) 18 cents   *(b) 20 cents*   (c) 22 cents   (d) 23 cents   (e) 24 cents

1. WHICH IS THE NEXT NO:

     5, 6, 7, 8, 10, 11, 14,

                                              ANS: 18

2. BFGE CODED AS CEHD   THEN CODE PVHDJ.

                                       ANS: QUICK

3. FIND THE NO. OF Y FOLLOWED BY W BUT THAT IS NOT FOLLOWED BY Z.   Y W R U D D Y W Z ....

4. WHAT IS THE LARGEST PRIME NO THAT IS STORED IN 8 BIT PATTERN.

                                   ANS: 253 (NOT SURE)

5. WHICH WILL GIVE GOOD STANDARD DEVIATION

    1. (7, 0,-7, 0, 7)   2. (7,-7, 7,-7, 7)   3. (1, 0,-1, 0,1)

6. WHICH IS NOT A SIDE OF A RECTANGULAR

    1. (2,3,4)   2.(3,4,7)   3. (3,5,9)

7. WHICH SHAPE WILL BE OBTAINED BY USING THESE VALUES OF X, Y

X	Y
0	0.00001
10	1.02
100	1.72
1000	3.00
9999	4.72

8. WHICH EQUATION THAT BEST SUITS THIS CURVE   A LINE CUTS X AT -1 WHEN Y=0 AND X=0 WHEN Y=3 AND GOES UPWARD
             Y   X

9. A MAN, WOMAN AND A BOY JOINDLY DID A JOB IN 6 DAYS. A MAN ALONE FINISHES IN 10 DAYS, A OMEN LONE FINISH IN 24 DAYS. THEN HOW MANY DAYS THE BOY CAN TAKE TO FINSH?

10. FOR TEMPERATURE A FUNCTION IS GIVEN ACCORDING TO TIME: ((t2)/6) + 4t +12 WHAT IS THE EMPERATURE RISE OR FALL BETWEEN 4.AM TO 9 AM**

11. AN AEROPLANE STARTS FROM A (SOME LATITUDE IS GIVEN ACCORDING TO PLACE)AT 2 AM LOCAL TIME TO B(SOME LATITUDE). TRAVELLLING TIME IS 10 HOURS. WHAT IS THE LOCAL TIME OF B WHEN IT REACHES B

12. A FILE IS TRANSFERRED FROM A PLACE TO ADESTINATION CAPABLE OF 10 KB. THEY GIVEN SOME RATE OF TRANSFER. U HAS FIND A EQUATION THAT BEST SUIT THIS.

13. IN A PLANAR CUBE, THE NO. OF VERTICES, NO OF EDGES AND NO OF FACES ARE
1. 6, 6, 6 2. 4,8,12 3....   4.........

14. VENN DIAGROM below
1.   HOW MANY PERSON KNOW ENGLISH MORE THAN FRENCH
2.   HOW MUCH % OF PEOPLE KNOWS ALL THE 3 LANGUAGES
3.   HOW MUCH % OF PEOPLE THOSE WHO KNOWS FRENCH AND
            GERMAN AND NOT ENGLISH FRENCH

15. CORRECT CHART WITH CORRECT VALUES X- YEAR Y- NO OF PERSONS
1.   AVERAGE NO. OF PERSONS FROM 1995 - 1999
2.   WHICH YEAR HAS LARGE DIFFERENCES IN NO OF PERSONS
3.   IF 10% OF PEOPLE LEAVES THE OFFICE IN 1998 THEN,
HOW MANY FRESH CANDIDATES CAN BE ADDED IN THE NEXT YEAR

**16. WHAT IS THE VALUE OF M (373, 7) + R (6.8) -T (3.4) + R (3.4) M- MODULAS   R- ROUNDOFF
        T- TRUNCATE**

**17. WHAT IS THE VALUE OF % # % (5) + # % # (2) WHERE   % - DOUBLING #-
RECIPROCAL**

18. MATCH THE FOLLOWING
                    A   B
        1. SENTENCE, PARAGRAPH 1. TYPE OF
        2. BASMATI, WHEAT   2. A PART OF
        3. BROTHER, SISTER   3. NOT A TYPE OF
        4. BREIGAL, DOG   4. SIBLING
ANS: 1-> 2   2->1   3->3   4->4

19. G (0) =1 G (1) = -1 IF G (N)=2* (G (N-1))- 3(G(N-2)) THEN WHAT IS THE VALUE OF G (4)?

20.   **A**   0   0   0   0   1   1   1   1
       B   0   0   1   1   0   0   1   1
       C   0   1   0   1   0   1   0   1
   (A U B) P C

21.   **TIME**   **DEGREE**
  2   7 ° 6'   43.15"
  4   5° 31'   4.3"
THEN WHAT WILL BE THE DEGREE WHEN TIME IS 3 O CLOCKS

**22.   THREE COMPANIES WORKING INDEPENDENTLY AND GET SAVINGS 10%, 20%,
25%. IF THE OMPANIES WORK JUST OPPOSITE THEN WHAT WILL BE THE NET SAVING?**

23. WHICH ONE WILL BE THE EXACT POWER OF 3
        (i) 2768   (ii) 2678   (III) 2187

**24. SOME RELATION THAT IS DEDUCE TO A (POW 2) DIRECT PROPORTIONAL TO X
(POW 3) B (POW 2) DIRECT PROPORTIONAL TO Y (POW 3) SOME FOUR ANSWERS WERE
GIVEN**
                                        ANS: ALL OF THE ABOVE

25. 900 M WIDE 3000 M WIDTH SOMETHING I CAN'T REMEMBER SOME VALUES ARE
GIVEN   BY AIR PER M Rs. 4 BY GROUND PER M Rs. 5 THEN WHERE U WILL CUT ADD
MAN OUT

26. 1.JAVA   2.SMALLTALK 3.LISP 4.EIFFEL

27. 1.SAP   2.ARP   3.WAP   4.TCP IP

28. WHICH IS THE PERFECT ONE AMONG THE 4
1. 2x +3y=4   2. x + y= -1   3. Y=2x+ 3

1. 5,6,7,8,10,11,14?

2.

A	1	0	0	1	0	0	0	1
B	0	1	1	0	1	0	1	0
C	1	0	0	1	0	1	1	0

(AuB)nC = ?   [(A union B) intersection C =?]

3. Find the Odd word.
        Java, Lisp, Smalltalk, Eiffel
(One more question of same type - Odd man out)

4.

Year	95	96	97	98	99
Members	100	1	70	10	50

i) Which year has maximum members growth? Two more questions on this. Please go Through Barons GRE data interpretation problems

5.   In Madras, temperature at noon varies according to   -t^2/2 + 8t + 3 (READ as: -t square /2 +...), where t is elapsed time. Find how much temp. More or less in 4pm to 9pm. (May be we can solve it by Definite Integration. Check any way)

6.A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work? (Numbers are not correct. Problem model is important)

7.What is the highest prime number that can be stored in a 8-bit microprocessor?

8. In which of the system 384 is equal to 1234? (Numbers are not correct. Important is only problem model)

9.If D_MUQZM is coded as CENTRAL then RBDJK can be coded as ---------

10.The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?

11. French, English, German
        1.How many more or less speak English than French?
2.What % people speak all the three languages?
3.What % people speak German but not English?

12.The size of the bucket is N KB. The bucket fills at the rate of 0.1 KB per millisecond. A programmer sends a program to receiver. There it waits for 10 Milliseconds. And response will be back to programmer in 20 milliseconds. Based on above information one question is there.

13.A power unit is there by the bank of the river 750 mts. A cable is made from power unit to power a plant opposite to that of the river at 1500mts. The cost of the cable below water is Rs. 15/- per meter ansd cost of cable on the bank is Rs. 12/- per meter. Based on above information one question is there.

14. Match the following.

i.	brother - sister	a.	Part of
ii.	alsecian - dog	b.	Sibling
iii.	Sentence – paragraph	c.	Type of
iv.		d.	-----------

15. If the vertex (5,7) is placed in the memory. First vertex (1,1) 's address is 1245 and then address of (5,7) is ----------

16. A Planar solid cube contains how many vertices, how many corner points and how many faces?

17. Which of the equation satisfies the graph? 4 equations given.

18. Square of the <<term>> is directly proportional to the cube of the <<another term>> . If the <<term>> is 'a' and <<another term>> is 'b' then which one is correct?4 options given like a square / b cube =const.

QUANTITATIVE SECTION

1. If two pencils cost 8 cents, then how much do 5 pencils cost?

Ans. 20 cents

2**. Some work is done by two people in 24 minutes. One of them can do this work alone in 40 minutes. How much time does the second person take to do the same work ?**

Ans. 60 minutes

3. A car is filled with four and half gallons of fuel for a round trip.If the amount of fuel taken while going is 1/4 more than the amount taken for coming, what is the amount of fuel consumed while coming back?

Ans.2 gallons

4. The lowest temperature in the night in a city A is 1/3 more than 1/2 the highest during the day. Sum of the lowest temperature and the highest temperature is 100 degrees. Then what is the low temp?

Ans.40 degrees

5. Javagal, who decided to go to weekened trip should not exceed 8 hours driving in a day. The average speed of forward journey is 40 miles/hr.Due to traffic on sundays, the return journey's average speed is 30 m/h. How far he can select a picnic spot?
a) 120 miles
b) between 120 and 140 miles
c) 160 miles

Ans. 120 miles

6. A salesperson by mistake multiplied a number and got the answer as 3, instead of dividing the number by 3.What is the answer he should have actually got?

Ans. 3

7. A building with height D shadow upto G. What is the height of a neighbouring building with a shadow of C feet.

Ans. (C*D)/G

8. A person was fined for exceeding the speed limit by 10 mph. Another person was also fined for exceeding the same speed limit by twice the same. If the second person was travelling at a speed of 35 mph, find the speed limit.

Ans. 15 mph

9. A bus started from bustand at 8.00am, and after staying for 30 minutes at a destination, it returned back to the busstand. The destination is 27 miles from the busstand. The speed of the bus is 18mph. During the return journey bus travels with 50% faster speed.At what time does it return to the busstand?

Ans. 11.00am

10. In a mixture, R is 2 parts and S is 1 part. In order to make S to 25% of the mixture, how much of R is to be added?

Ans.One part of R

11. Wind flows 160 miles in 330 min, for travelling 80 miles how much time does it require?
Ans. 2 hrs 45 mins

12. With a 4/5 full tank a vehicle can travel 12 miles, how far can it travel with a 1/3 full tank

Ans. 5 miles

13. There are two trees in a lawn. One grows at a rate 3/5 of the other in 4 years. If the total growth of trees is 8 ft. What is the height of the smaller tree after 2 years

Ans. 1 1/2 feet

14. Refer to the figure below. A ship started from P and moves at a speed of I miles per hour and another ship starts from L and moving with H miles per hour simultaneously. Where do the two ships meet?
||---g---||---h---||---i---||---j---||---k---||---l---||
PG H I J K L are the various stops in between denoted by || . The values g, h, i, j, k, l denote the distance between the ports.

Ans. Between I and J, closer to J

15. If A is travelling at 72 km per hour on a highway. B is travelling at a speed of 25 meters per second on a highway. What is the difference in their speeds in m/sec.
Ans. 1 m/sec

QUANTITATIVE SECTION

1. There are 150 weights .Some are 1 kg weights and some are 2 kg weights. The sum of the weights is 260.What is the number of 1kg weights?

Ans. 40

2. A is driving on a highway when the police fines him for overspeeding and exceeding the limit by 10 km/hr.At the same time B is fined for overspeeding by twice the amount by which A exceeded the limit. If he was driving at 35 km/hr what is the speed limit for the road?

Ans. 15 kmph

3. A moves 3 kms east from his starting point . He then travels 5 kms north. From that point he moves 8 kms to the east.How far is A from his starting point?

Ans. 13 kms

4. A car travels 12 kms with a 4/5th filled tank.How far will the car travel with 1/3 filled tank?

Ans. 5 kms

5. The sum of the digits of a two digit number is 8. When 18 is added to the number, the digits are reversed. Find the number?

Ans. 35

6. The cost of one pencil, two pens and four erasers is Rs.22 while the cost of five pencils, four pens and two erasers is Rs.32.How much will three pencils, three pens and three erasers cost?

Ans. 27

7. Fathers age is 5 times his son's age. 4 years back the father was 9 times older than son.Find the fathers' present age.

Ans. 40 years

8. What number should be added to or subtracted from each term of the ratio 17 : 24 so that it becomes equal to 1 : 2.

Ans. 10 should be subtracted

9. What is the 12th term of the series 2, 5, 8, ...

Ans. 35

10. If 20 men take 15 days to to complete a job, in how many days can 25 men finish that work?

Ans. 12 days

11. In a fraction, if 1 is added to both the numerator at the denominator, the fraction becomes 1/2. If numerator is subtracted from the denominator, the fraction becomes 3/4. Find the fraction.

Ans. 3/7

12. If Rs.1260 is divided between between A, B and C in the ratio 2:3:4, what is C's share?

Ans. Rs. 560

13. A shopkeeper bought a watch for Rs.400 and sold it for Rs.500.What is his profit percentage?

14. **What percent of 60 is 12?**

Ans. 20%

15. **Hansie made the following amounts in seven games of cricket in India: Rs.10, Rs.15, Rs.21, Rs.12, Rs.18, Rs.19 and Rs.17(all figures in crores of course).Find his average earnings.**

Ans. Rs.16 crore

1) ONE RECTANGULAR PLATE WITH LENGTH 8INCHES, BREADTH 11 INCHES AND 2 INCHES THICKNESS IS THERE.WHAT IS THE LENGTH OF THE CIRCULAR ROD WITH DIAMETER 8 INCHES AND EQUAL TO VOLUME OF RECTANGULAR PLATE?
ANS: 3.5 INCHES

2) **WHAT IS THE NUMBER OF ZEROS AT THE END OF THE PRODUCT OF THE NUMBERS FROM 1 TO 100**

3) **In some game 139 members have participated every time one fellow will get bye what is the number of matches to choose the champion to be held?**
ans: 138

4) **one fast typist type some matter in 2hr and another slow typist type the same matter in 3hr. if both do together in how much time they will finish.**
ans: 1hr 12min

5) **in 8*8 chess board what is the total number of squares refer Model**
ans:204

6) **falling height is proportional to square of the time. one object falls 64cm in 2sec than in 6sec from how much height the object will fall.**

7) **Gavaskar average in first 50 innings was 50. After the 51st innings his average was 51 how many runs he made in the 51st innings**

8)**2 oranges, 3 bananas and 4 apples cost Rs.15. 3 oranges 2 bananas 1 apple costs Rs.10. what is the cost of 3 oranges, 3 bananas and 3 apples?**

Ans: Rs.15

9) **In 80 coins one coin is counterfeit what is minimum number of weighing to find out counterfeit coin**

10)**In a company 30% are supervisors and 40% employees are male. if 60% of supervisors are male. What is the probability that a randomly chosen employee is a male or female?**

11) statement: all green are blue are blue, all blue are white conclusion:
I) some blue are green II) some white are green
III)some green are not white IV) all white are blue
a) he has given four choices like gre type

12)**all teachers are students. some students are girls.this type of questions are there. we cant able to reproduce them.**

QUANTITATIVE AND LOGICAL REASONING

1. In a two-dimensional array, X (9, 7), with each element occupying 4 bytes of memory, with the address of the first element X (1, 1) is 3000; find the address of X (8, 5).
   Ans: 3212

2. In the word ORGANISATIONAL, if the first and second, third and forth, forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?
   Ans: I

3. What is the largest prime number that can be stored in an 8-bit memory?   Ans : 251

4. Select the odd one out   a. Java   b. Lisp   c. Smalltalk   d. Eiffel.
5. Select the odd one out   a. SMTP   b. WAP   c. SAP   d. ARP
6. Select the odd one out   a. Oracle   b. Linux   c. Ingress   d. DB2
7. Select the odd one out   a. WAP   b. HTTP   c. BAAN   d. ARP
8. Select the odd one out   a. LINUX   b. UNIX   c. SOLARIS   d. SQL SEVER
9. Select the odd one out   a. SQL   b. DB2   c. SYBASE   d. HTTP

10. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?

Ans: 0.5%(SQRT 101N)

11. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?

Ans: 16

12. In which of the system, decimal number 184 is equal to 1234?
Ans: 5

13. Find the value of the 678 to the base-7.
   Ans: 1656
14. Number of faces, vertices and edges of a cube
   Ans: 6 8 12
15. Complete the series 2, 7, 24, 77,__
   Ans: 238

16. Find the value of @@+25-++@16, where @ denotes "square" and + denotes "square root".
Ans: 621

17. Find the result of the following expression if, M denotes modulus operation, R denotes round-off, T denotes truncation: M(373,5)+R(3.4)+T(7.7)+R(5.8)
Ans:19

18. If TAFJHH is coded as RBEKGI then RBDJK can be coded as? Ans: qcckj

19. G(0)= -1, G(1)=1, G(N)=G(N-1) - G(N-2), G(5)= ?
Ans: - 2

20. What is the max possible 3 digit prime number?
Ans: 997

21. A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power plant opposite to that of the river and 1500mts away from the power unit.The cost of the cable below water is Rs.15/- per meter and cost of cable on the bank is Rs.12/-per meter. Find the total of laying the cable.
Ans : 1000 (24725-cost)

22. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?
Ans:0.5%(SQRT 101N)

23. In Madras, temperature at noon varies according to -t^2/2 + 8t + 3, where t is elapsed time. Find how much temperature more or less in 4pm to 9pm.

24. The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

Ans: 30

25. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?

Ans: 16

26. If the vertex (5,7) is placed in the memory. First vertex (1,1) `s address is 1245 and then address of (5,7) is ----------

Ans: 1279

27. Which of the following are orthogonal pairs?
        a. 3i+2j b. i+j c. 2i-3j d. -7i+j

Ans: a, c

28. If VXUPLVH is written as SURMISE, what is SHDVD?

Ans: PEASE

29. If A, B and C are the mechanisms used separately to reduce the wastage of fuel by 30%, 20% and 10%.What will be the fuel economy if they were used combined.

Ans: 20%

30. What is the power of 2?   a. 2068   b.2048 c.2668

31. Complete the series. 3, 8, --, 24, --, 48, 63.

Ans: 15.35

32. Complete the series. 4, -5, 11, -14, 22, --

Ans: -27

33. A, B and C are 8 bit no's. They are as follows:
                A -> 1 1 0 1 1 0 1 1
                B -> 0 1 1 1 1 0 1 0
                C -> 0 1 1 0 1 1 0 1
        Find ((A-B) u C)=?

Hint: 109…. A-B is {A} - {A n B}

34. A Flight takes off at 2 A.M from northeast direction and travels for 11 hours to reach the destination, which is in northwest direction. Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

Ans: 7 am

35. A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours required for B to copy 26 papers?

Ans: 13

36. A is twice efficient than B. A and B can both work together to complete a work in 7 days. Then find in how many days, A alone can complete the work?

Ans: 10.5

37. A finish the work in 10 days. B is 60% efficient than A. So how many days do B takes to finish the work?

Ans :100/6

38. A finishes the work in 10 days & B in 8 days individually. If A works for only 6 days then how many days should B work to complete A's work?   Ans: 3.2 days

39. Given the length of the 3 sides of a triangle. Find the one that is impossible? (HINT: sum of smaller 2 sides is greater than the other one, which is larger)

40. **Find the singularity matrix from a given set of matrices?** (Hint det(A)==0))

41. **A 2D array is declared as A[9,7] and each element requires 2 byte. If A [1,1] is stored in 3000. Find the memory of A[8,5] ?**   Ans: 3106

42. **Sum of slopes of 2 perpendicular st.lines is given. Find the pair of lines from the given set of options, which satisfy the above condition?**

43. **(a) 2+3i (b)1+i (c) 3-2i (d) 1-7i .Find which of the above is orthogonal.** Ans : a,c

44. **(Momentum*Velocity)/(Acceleration * distance). Find units**.   **Ans: mass**

45. **The number 362 in decimal system is given by (1362) x in the X System of numbers find the value of X**
    a} 5   b) 6   c) 7   d) 8   e) 9

46. **Given $ means Tripling and % means change of sign then find the value of $%$6-%$%6**

47. **My flight takes of at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed?**

6:00 am   b) 6:40am   c) 7:40   d) 7:00 e) 8:00
 (Hint: Every 1 deg longitude is equal to 4 minutes. If west to east add time else subtract time)

48. **Find the highest prime number that can be stored in an 8 bit Computer?**

49. **Which of the following set of numbers has the highest Standard deviation?**
a)1,0,1,0,1,0   b) -1, -1, -1, -1, -1, -1   c)1,1,1,1,1,1   d) 1,1,0, -1,0, -1

TCS main   Papers From Campus Recruitment at NIT BHOPAL 2003

1.If g (0)=g (1)=1 And g (n)= g (n-1) + g (n -2) find g (6);

2.A plane moves from 9˚N40˚E to 9˚N40˚W. If the plane starts at 10 am and takes 8 hours to reach the destination, find the local arrival time.

3. **If log 0.317=……… and log 0.318=………. Then find the value of log 0.319.**

4.You will be given the bit position values for A, B and C and using the relation (AΩB) u C you have to construct the truth table. Then find the corresponding decimal number and choose the right option.

5.Complete the sequence 9,10,11,13,15, __, 21,28.

6.In a certain format TUBUJPO is coded as STATION. The code of which string is FILTER?

7. What is the code formed by reversing the First and second letters, the third and fourth letters and son on of the string SIMULTANEOUSLY?

8. The base 5 representation of the decimal number 2048 is _____.

9. Which is the largest prime number that can be stored in a 9-bit register?

10. Find the physical quantity represented by MOMENTUM *VELOCITY] / [LENGTH * ACCELERATION]?

11.A can do a piece of work in 20 days, which B can do in 12 days. In 9 days B does ¾ of

the work. How many days will A take to finish the remaining work?

1. In a two-dimensional array, X (9, 7), with each element occupying 4 bytes of memory, with the address of the first element X (1, 1) is 3000, find the address of X (8, 5).

ANS: 3212

2. In the word ORGANISATIONAL, if the first and second, third and forth, forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?

ANS: I(ROANISATIONALG)

2E. in the word ORGANISATIONAL, if the first and second, third and forth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?

ANS: I(ROAGINASITNOLA)

3. What is the largest prime number that can be stored in an 8-bit memory?

ANS:127

4. Select the odd one out	**a. Java**	**b. Lisp**	**c. Smalltalk**	**d. Eiffel.**
5. Select the odd one out	**a. SMTP**	**b. WAP**	**c. SAP**	**d. ARP**
6. Select the odd one out	**a. Oracle**	**b. Linux**	**c. Ingress**	**d. DB2**
7. Select the odd one out	**a. WAP**	**b. HTTP**	**c. BAAN**	**d. ARP**
8. Select the odd one out	**a. LINUX**	**b. UNIX**	**c. SOLARIS**	**d. SQL SEVER**
9. Select the odd one out	**a. SQL**	**b. DB2**	**c. SYBASE**	**d. HTTP**

10. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?

11. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?
ANS:16

12. In which of the system, decimal number 194 is equal to 1234? ANS:5

13. Find the value of the 678 to the base 7. ANS:1656

14. Number of faces, vertices and edges of a cube ANS:6,8,12

15. Complete the series 2, 7, 24, 77,___ ANS:238

16. Find the value of @@+25-++@1..., where @ denotes "square" and + denotes "square root". ANS:121

17. Find the result of the following _expression if, M denotes modulus operation, R denotes round-off, T denotes truncation:M(373,5)+R(3.4)+T(7.7)+R(5.8)
ANS:19

18. If TAFJHH is coded as RBEKGI then RBDJK can be coded as --------- ANS:PCCKJ

19. G(0)=-1, G(1)=1, G(N)=G(N-1) - G(N-2), G(5)= ?

ANS:-2

20. What is the max possible 3 digit prime number?

ANS:

21. A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable below water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. Find the total of laying the cable.

ANS:20250

22. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?

23. In Madras, temperature at noon varies according to $-t^2/2 + 8t + 3$, where t is elapsed time. Find how much temperature more or less in 4pm to 9pm.

ANS: 385.8(DB)

24. The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?

ANS: 30MILISECOND

25. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?

26. If the vertex (5,7) is placed in the memory. First vertex (1,1) ?s address is 1245 and then address of (5,7) is ----------

27. Which of the following are orthogonal pairs?
a. 3i+2j b. i+j
c. 2i-3j d. -7i+j
ANS: (A)& (C).

28. If VXUPLVH is written as SURMISE, what is SHDVD?

ANS: PEASA

29. If A, B and C are the mechanisms used separately to reduce the wastage of fuel by 30%, 20% and 10%. What will be the fuel economy if they were used combined.

ANS: 20%

30. What is the power of 2? a. 2068 b.2048 c.2668 ANS: (B). 2048

31. Complete the series. 3, 8, --, 24, --, 48, 63 ANS: 15,35

32. Complete the series. 4, -5, 11, -14, 22, --- ANS: -27

33. A, B and C are 8 bit no?s. They are as follows:
  A 1 1 0 1 1 0 1 1
  B 0 1 1 1 1 0 1 0
  C 0 1 1 0 1 1 0 1
  Find ((A-B) u C)=?

Hint :A-B is {A} - {A n B}
ANS: 0 1 1 1 1 1 1 1 (DB)

A Flight takes off at 2 A.M from northeast direction and travels for 11 hours to reach the destination which is in north west direction.Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

ANS: 1:00 P.M

35. A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours required for B to copy 26 papers?

ANS: 13

36. A is twice efficient than B. A and B can both work together to complete a work in 7 days. Then find in how many days A alone can complete the work?

ANS: 10.5 DAYS(11)

37. A finish the work in 10 days. B is 60% efficient than A. So hoW days does B take to finish the work?

38. A finishes the work in 10 days & B in 8 days individually. If A works for only 6 days then how many days should B work to complete A?s work?

ANS : 3.2 DAYS(4)

39. Given the length of the 3 sides of a triangle. Find the one that is impossible?

(HINT : sum of smaller 2 sides is greater than the other one which is larger)

40. Find the singularity matrix from a given set of matrices?(Hint det(A)==0)

41. A 2D array is declared as A[9,7] and each element requires 2 byte.If A[1,1] is stored in 3000. Find the memory of A[8,5] ?

ANS: 3106.

42. Sum of slopes of 2 perpendicular st. lines is given. Find the pair of lines from the given set of options which satisfy the above condition?

43. (a) 2+3i (b)1+i (c) 3-2i (d) 1-7i .Find which of the above is orthogonal.

ANS : (A) & (C).

44. (Momentum*Velocity)/(Acceleration * distance) find units.

ANS:MASS

45. The number 362 in decimal system is given by (1362)x in the X system of numbers find the value of X
   a}5   b) 6   c) 7   d) 8   e) 9

46. Given $ means Tripling and % means change of sign then find the value of $%$6-%$%6

ANS : -72

47. My flight takes of at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed.
a) 6:00 am b) 6:40am c)7:40 d)7:00 e)8:00 (Hint : Every 1 deg longitude is equal to 4 minutes . If west to east add time else subtract time) ANS: (E) 8:00

48. Find the highest prime number that can be stored in an 8bit computer.

49. Which of the following set of numbers has the highest Standard deviation?
1,0,1,0,1,0
-1,-1,-1,-1,-1,-1
1,1,1,1,1,1
1,1,0,-1,0,-1

50. Match the following:
1. Male - Boy --->
a. A type of
2. Square - Polygon --->
b. A part of
3. Roof - Building --->
c. Not a
type of
4. Mushroom - Vegetables ---> d.
A superset of
Ans: 1- d, 2- a, 3- b, 4- c

51. Match the following.
1. brother - sister
---> a. Part of
2. Alsatian - dog --->
b. Sibling
3. sentence - paragraph --->
c. Type of
4. car - steering
---> d. Not a type
of
Ans. 1-b, 2-c, 3-a, 4-d

JADAVPUR UNIVERSITY 1999 PART II QUANTITATIVE APTITUDE ,TIME 20 Min. MARKS :30.

1**. Two pencils costs 8 cents, then 5 pencils cost how much** (Ans:20 cents).

2**. A work is done by the people in 24 min. one of them can do this work a lonely in 40 min. how much time required to do the same work for the second person**.

(ans:60 min.)

3**. A car is filled with four and half gallons of oil for fullround trip. fuel is taken 1/4 gallons mor3 in going than coming. what is the fiel consumed in coming up?**

(**2 gallons**)

4. **low temperature at the night in a city is 1/3 more than 1/2 hinge as higher temperature in a day. sum of the low temp and higherst temp is 100C. then what is the low temperature**
(40 C)

5**. A person who decided to go weekend trip should not exceed 8hoursdriving in a day Average speed of forward journy is 40 mph. due to traffic in sundays, the return journey average speed is 30 mph. how far he can select a picnic spot (120 miles).**

6**. A sales person multiplied a number and get the answer is 3,instead of that number divided by 3. what is th answer he actuallyhas to get ?** (1/3).

7**. A ship started from port and moving with I mph and another shipstarted from L and moving with H mph. At which place these two ships meet ?** (Ans is between I and J and close to J)

!_____!_____!_____!_____!_____!_____!
port G H I J K L

8**. A building with hight D ft shadow upto G A neighbour building with what height shadow C ft is** (B ft.)

!_____!_____!_____!_____!_____!_____!_____!
A B C D E F G H

9**. A person was fined for exceeding the speed limit by 10 mph.Anotherperson was also fined for exceeding the same speed limit by twicethe same. If the second person was travelling at a speed of 35mph. find the speed limit** (15 mph)

10**. A bus started from bustand at 8.00a m and after 30 min stayingat destination, it returned back to the bustand. the destination is 27 miles from the bustand. the speed of the bus 50 percent fastspeed.at what time it retur4ns to the bustand** (11.00)

11.**in a mixture, R is 2 parts, S is 1 part. in order to make S to25% of the mixture, howmuch R is to be added (one part).**

12. **wind flows 160 miles in 330 min, for 80 miles how much timerequired.**

13. **with 4/5 full tank vehicle travels 12 miles, with 1/3 full tank how much distance travels (5 miles).**

14. **two trees are there. one grows at 3/5 of the other. in 4 years, total growth of trees is 8 ft. what growth will smaller tree willhave in 2 years. (<2ft)**

15. **A storm will move with a velocity of towords the center inhours. At the same rate how much far will it move in hrs.**
(but Ans is 8/3 or 2 2/3).

1. If two pencils cost 8 cents, then how much do 5 pencils cost?

Ans. 20 cents

2. Some work is done by two people in 24 minutes. One of them can do this work alone in 40 minutes. How much time does the second person take to do the same work ?

Ans. 60 minutes

3. **A car is filled with four and half gallons of fuel for a round trip.If the amount of fuel taken while going is 1/4 more than the amount taken for coming, what is the amount of fuel consumed while coming back?**

Ans.2 gallons

4. **The lowest temperature in the night in a city A is 1/3 more than 1/2 the highest during the day. Sum of the lowest temperature and the highest temperature is 100 degrees. Then what is the low temp?**

Ans.40 degrees

5. Javagal, who decided to go to weekened trip should not exceed 8 hours driving in a day. The average speed of forward journey is 40 miles/hr.Due to traffic on sundays, the return journey's average speed is 30 m/h. How far he can select a picnic spot?
a) 120 miles b) between 120 and 140 miles c) 160 miles

Ans. 120 miles

6. A salesperson by mistake multiplied a number and got the answer as 3, instead of dividing the number by 3.What is the answer he should have actually got?

Ans. 3

7. A building with height D shadow upto G. What is the height of a neighbouring building with a shadow of C feet.

Ans. (C*D)/G

8. A person was fined for exceeding the speed limit by 10 mph. Another person was also fined for exceeding the same speed limit by twice the same. If the second person was travelling at a speed of 35 mph, find the speed limit. Ans. 15 mph

9. **A bus started from bustand at 8.00am, and after staying for 30 minutes at a destination, it returned back to the bus stand. The destination is 27 miles from the bus stand. The speed of the bus is 18mph. During the return journey bus travels with 50% faster speed. At what time does it return to the bus stand?**

Ans. 11.00am

10. In a mixture, R is 2 parts and S is 1 part. In order to make S to 25% of the mixture, how much of R is to be added?

Ans.One part of R

11. **Wind flows 160 miles in 330 min, for travelling 80 miles how much time does it require?**
Ans. 2 hrs 45 mins

12. With a 4/5 full tank a vehicle can travel 12 miles, how far can it travel with a 1/3 full tank Ans. 5 miles

13. There are two trees in a lawn. One grows at a rate 3/5 of the other in 4 years. If the total growth of trees is 8 ft. What is the height of the smaller tree after 2 years Ans. 1 1/2 feet

14. Refer to the figure below. A ship started from P and moves at a speed of I miles per hour and another ship starts from L and moving with H miles per hour simultaneously. Where do the two ships meet?
||---g---||---h---||---i---||---j---||---k---||---l---||
PG H I J K L are the various stops in between denoted by || . The values g, h, i, j, k, l denote the distance between the ports.
Ans. Between I and J, closer to J

15. **If A is travelling at 72 km per hour on a highway. B is travelling at a speed of 25 meters per second on a highway. What is the difference in their speeds in m/sec.** Ans. 1 m/sec

IV SECTION

1. **There are 150 weights .Some are 1 kg weights and some are 2 kg weights. The sum of the weights is 260.What is the number of 1kg weights?**

Ans. 40

2. **A is driving on a highway when the police fines him for overspeeding and exceeding the limit by 10 km/hr.At the same time B is fined for overspeeding by twice the amount by which A exceeded the limit. If he was driving at 35 km/hr what is the speed limit for the road?**

Ans. 15 kmph

3. **A moves 3 kms east from his starting point . He then travels 5 kms north. From that point he moves 8 kms to the east.How far is A from his starting point?** Ans. 13 kms

4. **A car travels 12 kms with a 4/5th filled tank.How far will the car travel with 1/3 filled tank?** Ans. 5 kms

5. **The sum of the digits of a two digit number is 8. When 18 is added to the number, the digits are reversed. Find the number?**

Ans. 35

6. **The cost of one pencil, two pens and four erasers is Rs.22 while the cost of five pencils, four pens and two erasers is Rs.32.How much will three pencils, three pens and three erasers cost?**

Ans. 27

7. **Fathers age is 5 times his son's age. 4 years back the father was 9 times older than son.Find the fathers' present age.**

Ans. 40 years

8. **What number should be added to or subtracted from each term of the ratio 17 : 24 so that it becomes equal to 1 : 2.**

Ans. 10 should be subtracted

9. **What is the 12th term of the series 2, 5, 8, ...**

Ans. 35

10. **If 20 men take 15 days to to complete a job, in how many days can 25 men finish that work?**

Ans. 12 days

11. **In a fraction, if 1 is added to both the numerator at the denominator, the fraction becomes 1/2. If numerator is subtracted from the denominator, the fraction becomes 3/4. Find the fraction.**

Ans. 3/7

12. **If Rs.1260 is divided between between A, B and C in the ratio 2:3:4, what is C's share?**
Ans. Rs. 560

13. **A shopkeeper bought a watch for Rs.400 and sold it for Rs.500.What is his profit percentage?**

Ans. 25%

14. **What percent of 60 is 12?**

Ans. 20%

15. **Hansie made the following amounts in seven games of cricket in India: Rs.10, Rs.15, Rs.21, Rs.12, Rs.18, Rs.19 and Rs.17 (all figures in crores of course).Find his average earnings.**

Ans. Rs.16 crore

Quantitative:

1. **3 angles or 3 side's r given. Which will form a triangle?**

2. **Units of basic quantities:**
1. (energy * time * time)/(mass * dist) = distance
2. (momentum * velocity)/(force * time) = velocity
3."&" is for doubling the value "%" is for change of sign then what is the value 5-&%&5
Ans-30 (Check)

3. **58, 27, 12, x,2,1. Find x.**

4. R-rounding off, M-modulus, T-truncate   M (893,10)+r( )+t( ) is asked

5. vertices edges and surfaces of a cube

Ans-8,12,6

6. Sums on Recursive functions

7. Questions on General computer awareness pick the odd one…..
1.http 2.arp 3.snmp 4.sap   Ans-sap
1.linux 2.windows NT 3.sql server 4.Unix Ans-Sql server Another…..ans-Smtp
Ans-MVS

8. Which of the following is a singular matrix? (Determinant must be zero)

9. Aero plane is flying at a particular angle and latitude, after some time another latitude is given..(8 hrs later), u r asked to find the local time of the place.

10.a series of letters are given how many Ws r followed by F and preceded by T.

11. 7,9,13,_,27,37. Ans-19

12.SURFW Code is translated as SHEET…..these kind of ques r there…..
Freshersworld.com

13.194 base 10 = _____ base 5 (1234)

14. Largest prime no. in a 6 bit,8 bit (Ans 127),9 bit microprocessor

15. Venn Diagram kinda ques. Some know English, some French, some German……how many know two languages.....

16.Bar Diagram, Pie Chart (similar to Data interpretation)

17.Code Interchanging, A word is given…. Letters are reversed..u r asked to find the nth letter from right or left…. E.g. DESTABILIZATION

Ans-T

18. Sums on logarithms, e power x curves.

19.n=68 x 12 x 51 Which of the follg is not an integer Ans- n/122

20.**Which is a/not a power of 2 or 3. Power of 4**   Ans-4096

21. **A-- 1 0 10 10 (Not exact values)**

SECTION I

1. **If VXUPLVH is written as SURMISE, what is SHDVD ?**
Ans. PEASA (hint: in the first word, the alphabets of the jumbled one is three alphabets after the corresponding alphabet in the word SURMISE. S = V-3, similarly find the one for SHDVD)

2. **If DDMUQZM is coded as CENTRAL then RBDJK can be coded as ---------**
Ans. QCEIL (hint: Write both the jumbled and the coded word as a table, find the relation between the corresponding

words, i.e C= D-1,N=M+1 & so on

3. In the word ECONOMETRICS, if the first and second ,third and forth ,forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?

Ans. word is CENOMOTEIRSC tenth word is R

4. Find the result of the following __expression if, M denotes modulus operation, R denotes round-off, T denotes truncation: M(373,5)+R(3.4)+T(7.7)+R(5.8)

Ans. 19

5. What is the largest prime number that can be stored in an 8-bit memory?

Ans.

6 Find the physical quantity in units from the equation: Force*Distance)/(Velocity*Velocity)

Ans. Ns2/m

7. Find the value of @@+25-++@16, where @ denotes "square" and + denotes "square root".

Ans: 621

8. If f(0)=1 and f(n)= f(n-1)*n, find the value of f(4).

Ans: 24

9. Convert the decimal number 310 to the base 6.

Ans: 1234

10. Find the missing number in the series: 2,   5,   __ ,   19 ,   37,   75

Ans: 9

11. In a two-dimensional array, X(9,7), with each element occupying 4 bytes of memory, with the address of the first element X(1,1) is 3000, find the address of X(8,5).

Ans.

12. Find the fourth row, having the bit pattern as an integer in an 8-bit computer, and express the answer in its decimal value.

```
        A  0 0 0 0 1 1 1 1
        B  0 0 1 1 0 0 1 1
        C  0 1 0 1 0 1 0 1
  (AU(B-C))  ?
```
Ans. 29

13. Complete the series 2, 7, 24, 77,___ (hint: 2*12=24, 7*11= 77, therefore 24*10= 240)

Ans: 240

14. Consider the following diagram for answering the following questions:

 A. Find the difference between people playing cricket and tennis alone.

Ans: 4

 B. Find the percentage of people playing hockey to that playing both hockey and cricket.

Ans:

 C. Find the percentage of people playing all the games to the total number of players.

Ans: 6%

15. One more question of the same type (Same type of diagram; of course in a different set)

1. How many more or less speak English thanFrench?
2. What % people speak all the three languages?
3. What % people speak German but not English?

{In another set cricket, hockey and tennis are changed with the name of some computer languages, such as Java, Cobol, Fortran (may be some other name)}

16. Select the odd one out

a. Oracle   b.Linux   c. Ingress   d. DB2

17. Select the odd one out

a. SMTP   b. WAP   c. SAP   d. ARP

18. **Select the odd man out.**
   a. Java   b.Lisp   c. Smalltalk d. Eiffel

19. **Which of the following are orthogonal pairs?**
   a. 3i+2j   b. i+j   c. 2i-3j   d. -7i+j

20. **Number of faces, vertices and edges of a cube**
   a. 12,8,6 b. 4,6,8   c. 6,8,12   d. 6,12,8

21. **Given a Bar Chart showing the sales of a company.**
(In Figure) The sales in years as shown in the figure
are (in crores) 1998-1999 - 130, 1997-1998 - 90,
1996-1997 - 90, 1995-1996 - 70

1. **The highest growth rate was for the year**
         Ans. 1998-1999
2. **The net increase in sales of the company in the year span of 1995-1999**
         Ans. 60 crores.

3. **The lowest growth rate was for the year**
         Ans. 1997

22. **Find the value of the decimal number to the base 7.**
         Ans. 1436.

23. **Complete the series: 5, 6,7,8,10,11,14,__.**
            Ans. 15

24. **If the vertex (5,7) is placed in the memory. First vertex (1,1) 's address is 1245 and then**
address of
(5,7) is ----------
         Ans.

25. **In which of the system, decimal number 384 is equal to 1234?**
         Ans.

26. **A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24**
days. Woman can do
it in 16 days and in how many days child can do the same work?
         Ans.

27. **In Madras, temperature at noon varies according to -t^2/2 + 8t + 3, where t is elapsed**
time. Find how
much temperature more or less in 4pm to 9pm.
         Ans.

28. **The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A**
programmer
sends a program to receiver. There it waits for 10 milliseconds. And response will be back
to programmer
in 20 milliseconds. How much time the program takes to get a response back to the
programmer, after it is
sent?
         Ans.

29. **The size of a program is N. And the memory occupied by the program is given by M =**
square root of
100N. If the size of the program is increased by 1% then how much memory now occupied
?

Ans.

30. A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to
power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the
cable below water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. Find the total
of laying the cable.

Ans. Rs. 22,500 (hint: the plant is on the other side of the plant i.e. it is not on the same side as the river)

{There are two questions, both showing a curve. In the first one, you have to identify the curve. In the second one you have to Write the equation of the curve. In }