**Numeric Ability :**

1.given 100 to 999 nos. Probability of picking a no. with out

digit 7. Ans. 18/25.

2. Ten film rolls. 3 defective, prob. of picking up 2 defective

rolls with out replacement Ans. 6/90

3. The purpose of hashing is :

Ans. O(1) complexity

# **IBM**

4. In 1978, a kg of paper was sold at Rs25/-. I f the paper rate increases

at 1.5% more than inflation rate which is of 6.5% a year , then what wil

be the cost of a kg of paper after 2 years?

a)29.12 (b) 29.72 (c) 30.12 (d) 32.65 (e) none of these

5. In A,B,C are having some marbles with each of them. A has giben B and C the same number of marbles they already have to each of them. then, B gave C and A the same no. of marbles they have, then C gave A and B the same no. of marbles they have. At the end A,B,and C have equal no. of marbles.

(i) If x,y,z are the marbles initially with A,B,C respectively.

then the no of marbles B have at the end

(a) 2(x-y-z) (b) 4(x-y-z) etc.

(ii)If the total no. of marbles are 72, then the no. of marbles

with A at the starting

1. 20 b. 30 c. 32

6) person has Rs 100/- in his pocket, he can as 25 pencils or 15books.

He kept 15% of the money for travelling expenses and purchased 5

ncils.So how many books he can purchase with the remaining money.

A boy multiplied a number with 10 and got 100,insted of

dividing it . If he devided it what would be the answer?

(Ans is 1)

7)If 12 shell cup board requires 18ft of wall space then

30 " " " " how much wall space?

(Ans is 45)

8)The average salary of three employee is 95Rs.per week.

If one employee earns 115 and other earns 65 rupees.

how much will third be earn?

(Ans is 105Rs)

9)A company instaled 36 punching machines at the begining of

the year.In the spring they instaled 9 additional m/c's

and then discontinued 18 in the fall.How many were still

installed at the end of the year?

(Ans is 9)check

10)During a given week a programmer spend 1/4 of his time

preparing charts,3/8 of his time for coding,rest of his time

for debugging the programs.If he had 48 hrs during the week

how many hours did he spend debugging the program.

(Ans is 18hrs)

11)A 16 story building has 12000ft on each floor. Company A

rents 7 floors and company B rents 4 floors. What is the

number of square feet of unrented floor space?

(Ans is 60000 sqft)

12)A man owns 2/3 of a computer service buroue business and

sells 3/4 of his share for $75000.What is the value of the

business.

(Ans is 150,000)

13)A computer printer produces 176400 lines in a given day.

If the printer was in operation for 7hrs during the day

how many lines did it print per minute?

(Ans is 420)

14)From its total income a company spent $20000 for advertising

half of the remainder on salaries and had $6000 left.What

was the total income?

(Ans is $32000)

15)In a certain company 20% of the men and 40% of the women

attended the annual company picnic.If 35% of all the emplo-

yees are men .What % of all the employee went to the picnic?

(Ans is 33%)

16)The dimensions of certain IBM m/c are 48"\*30". If the

size of the m/c is increased proportionally until the

sum of its dimensions equals to 156".What will be the

increase in the shortest side?

(Ans is 30)

17)If a card punch operator can process 80 cards in half an hour

How many cards can this process in 7hr30min?

(Ans is 1200)

18)In a computer tape library there are two racks with 40 tapes

per rack.In a given day 30 tapes are in use . What fraction

remains in the rack?

(Ans is 5/8)

19)In 1978, a kg of paper was sold at Rs25/-. I f the paper rate increases at 1.5% more than inflation rate which is of 6.5% a year , then what wil be the cost of a kg of paper after 2 years?

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with A at the starting

a. 20 b. 30 c. 32

21)If a car starts from A towards B with some velocity due to some problem in the engine after travelling 30km.If the car goes with 4/5 th of its actuval velocity the car reaches B 45min later to the actual time. If the car engine fails ofter travelling 45km, the car reaches the destination B 36min late to the actual time , what is the initial velocity of car and what is the distance between A and B in km

ans) 20 & 130.

22)A person has Rs 100/- in his pocket, he can as 25 pencils or 15books.He kept 15% of the money for travelling expenses and purchased 5 PEncils.So how many books he can purchase with the remaining money.

23) ten questions on analogies.

ex: hammer : carpenter ::

knife : butcher.

23) The values of shares A,B and C from january to june are as follows.

month A B C

JAN 30 60 80

FEB 35 65 85

MAR 45 75 65

APR 40 75 82

MAY 55 75 85

JUNE 50 75 80

i) During this period which share has undergone max fluctuation?

ii) In which month it is possible to buy B and C selling A?

iii) In which month the share values are very low?

iv) By purchasing one share of A and 4 each of B and C in the beginning of the period , to get max profit when this shares should be sold?

24) In a computer institute 9 languages can taught. The module is of 6

months duration and only six languages each of one month can be taught. In addition to that BASIC is always there and should be in first month itself

# word perfect is to be taught in the preceeding week of word star.

# FORTRAN can not be taught until COBAL is coarsed prior to that

# BINO, FIFO never be taught in single module

languages are BASIC, WORD STAR, WORD PERFECT, FORTRAN, COBAL, BINO,

FIFO, LOTUS, C

i. Of the following which module is possible based on above conditions.

ii) If word star is in 3rd month , what could be in 6th month.

iii) If COBAL is in the 2nd month and BINO in 6th month are there in

addition to the above condition, FORTRAN will be in which month.

25)In a class , except 18 all are above 50 years. 15 are below 50 years ofage. how many people are there

a) 30 b) 33 c) 36 d) none of these.

26)A square plot of some size , at four corners equal squares of some size are cut and is formed as open box. If this open box carries 128ml of oil.

27)What is the size of the plate i.e. side

a.17 b.14 c.13

28) In a square , all the mid points are joined. the inner square is

shaded. If the area of the square is A, what is the shaded area?

29)11. two questions on basic angles i.e given a circle, a few chords or diameter is drawn etc.

30) @(a,b)= (a+b)/

/(a,b)= a.b

\*(a,b)= ab , if a=1, b=2 find

1. /(a,(@(a,b),\*(a,b)))

31) A boy multiplied a number with 10 and got 100,insted of

dividing it . If he devided it what would be the answer?

(Ans is 1)

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30 " " " " how much wall space?

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per rack.In a given day 30 tapes are in use . What fraction

remains in the rack?

(Ans is 5/8)

44) 1) There are two balls touching each other circumferencically.

The radius of the big ball is 4 times the diameter of the small

ball.The outer small ball rotates in anticlockwise direction

circumferencically over the bigger one at the rate of 16 rev/sec.

The bigger wheel also rotates anticlockwise at Nrev/sec. what is

'N' for the horizontal line from the centre of small wheel always

is horizontal.

45) 1 2 3 4

+ 3 4 5 5

----------

4 6 8 9

- 2 3 4 5

----------

2 3 4 4

+ 1 2 5 4

------------

3 6 9 8

Q) Strike off any digit from each number in seven rows (need not

be at same place) and combine the same operations with 3 digit numbers

to get the same addition. After this strike off another digit from all

and add all the No.s to get the same 2 digit No. perform the same

process again with 1 digit No.s. Give the ' no.s in 7 rows at

each stage.

46) there is a safe with a 5 digit No. The 4th digit is 4 greater than

second digit, while 3rd digit is 3 less than 2nd digit. The 1st digit

is thrice the last digit. There are 3 pairs whose sum is 11. Find

the number. Ans) 65292.

47) there are 2 guards Bal and Pal walking on the side of a wall of a

wearhouse(12m X 11m) in opposite directions. They meet at a point and

Bal says to Pal " See you again in the other side". After a few moments

of walking Bal decides to go back for a smoke but he changes his

direction again to his previous one after 10 minutes of walking in

the other(opposite) direction remembering that Pal will be waiting

for to meet.If Bal and Pal walk 8 and 11 feet respectively, how

much distance they would have travelled before meeting again.

48) xxx)xxxxx(xxx

3xx

-------

xxx

x3x

------

xxx

3xx

------

Q) Find the 5 digit No.

Hint: 5 is used atleast once in the calculation.

49) Afly is there 1 feet below the ceiling right across a wall length

is 30m at equal distance from both the ends. There is a spider 1 feet

above floor right across the long wall eqidistant from both the ends.

If the width of the room is 12m and 12m, what distance is to be

travelled by the spider to catch the fly? if it takes the shortest

path.

50) Ramesh sit around a round table with some other men. He has one

rupee more than his right person and this person in turn has 1 rupee

more than the person to his right and so on, Ramesh decided to give

1 rupee to his right & he in turn 2 rupees to his right and 3 rupees

to his right & so on. This process went on till a person has

'no money' to give to his right. At this time he has 4 times the

money to his right person. How many men are there along with Ramesh

and what is the money with poorest fellow.

51)Question related to probabilities of removing the red ball from a

basket,given that two balls are removed from the basket and the other

ball is red. The basket contains blue,red,yellow balls.

52)Venkat has 1boy&2daughters.The product of these children age is 72.

The sum of their ages give the door numberof Venkat.Boy is elder of

three.Can you tell the ages of all the three.

53) A SOLID ICE OF 11 X 8 X2 INCHES IS MADE INTO ROD OF DIA 4 INCH. WHAT

IS THE LENGE OF ROD?

ANS: 3.5 INCH

54) THERE WERE 750 PEOPLE WHEN THE FIRST SONG WAS SUNG. AFTER EACH

SONG 50 PEOPLE ARE LEAVING THE HALL. HOWMANY SONGS ARE SUNG TO MAKE

THEM ZERO?

ANS:16

55) A PERSON IS CLIMBING OF 60 MTS . FOR EVERY MINUTE HE IS CLIMBING 6 MTS

AND SLIPPING 4 MTS . AFTER HOWMANY MINUTES HE MAY REACH THE TOP?

ANS: (60-6)/2 +1 :28

56) HOWMANY ZEROS ARE THERE IN THE PRODUCT OF THE INTEGER FROM 1TO 100?

ANS: 24( NOT GIVEN)

1 TO 10 -2 ZEROS

21 TO 30 -3 ZEROS : BECAUSE 25 = 5\*5

22 \*5

24 \*5

57) A CAN DO WORK IN 2 HOURS B CAN DO A WORK IN 3 HOURS WHAT IS THE

SHORTEST TIME TYEY CAN FINISH THE WORK?

ANS: 1HOUR 12 MIN.

58)SALARY IS INCREASED BY 1200 ,TAX IS DECREASED FROM 12% TO 10% BUT PAYING

SAME AMOUNT AS TAX . WHAT IS THE PREVISIOUS SALARY?

ANS:6000

59) THE LEAST NO. WHICH IS WHEN DEVIDED BY 4,6,7 LEAVES A REMAINDER OF 2 ?

ANS: 86

60)A MAN DRIVING THE CAR AT TWICE THE SPEED OF AUTO ONEDAY HE WAS DRIVEN

CAR FOR 10 MIN. AND CAR IS FAILED. HE LEFT THE CAR AND TOOK AUTO TO GOTO

THE OFFICE . HE SPENT 30 MIN. IN THE AUTO. WHAT WILL BE THE TIME TAKE BY

CAR TO GO OFFICE?

ANS:25 MIN

61) A REPORT HS 20 WHEETS, EACH OF 55 LINES AND EACH SU;CH A LINE CONSISTS

OF 65 CHARACTERS. IF THE REPORT HAS TO BE RETYPED WITH EACH SHEET HAVING 65

LINES AND EACH LINE HAVE 75 CHARACTERS, THE PERCENTAGE OF REDUCTION OF

NO OF SHEETS IS CLOSEST IS TO?

ANS: 25%

62) OUT OF 100 FAMILIES IN NEIGHBOUR HOOD , 55 OWN RADIO, 75 OWN T.V

AND 25 OWN VCR. ONLY 10 FAMILIES HAVE ALLOF THESE, AND EACH VCR OWNER

HAS TV . IF 25 FAMILIES HAVE THE RADIO ONLY, THE NO. OF FAMILIES HAVE

ONLY TV ARE?

ANS: 30

63) 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: 3.5INCHES

64) WHAT IS THE NUMBER OF ZEROS AT THE END OF THE PRODUCT OF THE NUMBERS

FROM 1 TO 100

65) 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

66) one fast typist type some matter in 2hr and

another slow typist type the

same matter in 3hr. if both do combinely in how much time they

will finish.

ans: 1hr 12min

67) in 8\*8 chess board what is the total number of squares

refer odel

ans:204

68) 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.

69) 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

70) 2 oranges,3 bananas and 4 apples cost Rs.15 . 3 ornages 2 bananas

1 apple costs Rs 10. what is the cost of 3 oranges, 3 bananas and

3 apples ANs Rs 15.

71) in 80 coins one coin is counterfiet what is minimum number of

weighings to find out counterfiet coin

72)in a company 30% are supervisors and 40% employees are male

if 60% of supervisors are male. what is the probability

that a randomly choosen employee is a male or female?

73)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

74)all teachers are students. some students are girls.

this type of questions are there.

we cant able to reproduce them.:wq

APTITUDE TEST

75)33 1/3 of 101 + 296 is

(ans 1200) check

76)0.625= ? (ans 27/40)

77)One ship goes along the stream direction 28 km and in opposite

direction 13 km in 5 hrs for each direction.What is the velocity

of stream?

(ans 1.5 kmph)

78)Cubic root of 3375=?

(ans 15)

79)2020201-565656=?

(ans 1454545)

80)CHAIRS PROBLEM

5 chairs=9 tables,12 tables = 7 stools likethat- - -

(ans is 80Rs)

81)One clock ringes 7 O'clock in 7 sec.In how many seconds it will

ring 10 O'clock.

(ans 10.5 sec)

82)One watch is showing 30 past 3 .What is the angle between minutes &

hours hand?

(ans 75 degrees)

83)The average of 4 consecutive even numbers is 27. What is the largest

number?

(ans 30)

84) 25 stations ,24 stations are inbetween- - - - -

how many tickets should be required.

(ans 25\*24=600)PUZZLES TO PUZZLE YOU "S.DEVI"PROB 24

85)One ball was dropped from 8ft height and every time it goes half

of the height. How much distance it will travell before coming to

rest.

(ans 24 approximately)

86)Two trains are travelline at equilateral .Train A is travelling

in the direction of earths spin.Other train B is travelling in

opposite direction of earths spin.Which trains wheels will wear

first?and why?

(ans TRAIN B .Because of less centrifugal force.)

87).6\*12\*15 is the volume of some material.How many cubes can be inserted into that?

Ans.40

88)Two pipes can fill a tank in 10 1nd 12 hours while third pipe will make the tank

empty in 20 hours.If all three pipes operate simultaneously,in how many hours the

tank will be filled ?

Ans.7hours 30 minutes.

89)Diameter of a beaker is 7cm. Mambler(some instrument)dia is 1.4cm.How many mamblers

has to be put to increase the water level by 5.6cm.

90)Cost of an item is x. It's value increases by p% and decreases by p%Now the new value

is 1 rupee, what is the actual value.

Ans.(1000)/(1000-p\*p).

91)A right circular cylinder and a cone are there.Base radius of cone is equal to radius

of cylinder.What is the ratio of height to slant side.

92)Distance between two poles is 50 meters.A train goes by 48 kmph in one minute.How many

poles will be crossed by the train.

93)A pole seen from a certain distance at an angle of 15 degrees and 100 meters ahead by

30 degrees. What is th height of pole.

94)15 people--each has to pay Rs.20.. 20 people--each has to pay Rs.18.. for 40 people--how

much has to pay ?

95)if p=2q then q=r\*r,if p-odd then q is even,whether we decide r is even or odd ?

choices:a)first condition is sufficient

b)second condition is sufficient

c)both are sufficient

d)both are not sufficient

96)What is the value of m given that

i) m is devided by 2

ii) m is devided by 5

Ans: none of these

97)If he sells 40 magoes, he will get the selling price of 4 mangoes extra, What is his %

increse in profit ?

Ans: 25%

98)100 glasses are there. A servant has to supply glasses to a person If he supplies the

glasses without any damage he will et 3 paise otherwise he will loose 3 paise.At the

end of supplying 100 glasses if he gets 270 paise, how many glasses were supplied safely.

Ans: 95

99) distance D=rt where r & t are +ve and r is constant,as t increses then

D\_\_\_\_\_\_\_\_\_

ans:D increses irrespective of r & t

100)E=I\*I\*R what is the effect of E when I becomes I/2

ans:1/4E(E decreses by 4 times)

101) out of 55 eggs 5 are defective. what is % of defective eggs

ans:9/11%

102)salary is 's' per month,'x'% of salary is given as bonus, if 3 months

salary is s1,s2 & s3 then what is his salary.

ans:s1\*x/100 + s2\*x/100 + s3\*x/100

103)consider expresion 'ab' . what happens when 'a' is divided by 'c' &

'b' is

multiplied by 'c'.

ans:value remains same.

104) area of triangle=1/2\*b\*h base incresed by 4 times & height is devided

by

2, the net effect of area.

ans:twice the the original area.

105) in base representation for a rupee 100 paise,then base 8

representation

what is rupee value .

ans:144

106) A>B,B>C,C=D,D>E,then which is greatest

a)A/B b) A/C c) A/E d)none

ans: c

107)to travel 'm' miles the time is 'h' hours,then what is the time taken

to

travel M miles.

ans:M\*h/m

108) a sum 's' is devided into 4 parts.second person gets Rs 10 more than

first.3rd person is Rs 10 more than second, 4th is 10 more than 3rd.

how much amount do 1st person get.

ans;(s-60)/4

109) fridge cost R Rs,cover value is 5,discount d% then its new cost

ans:R-R\*d/100-5(1-d/100)

110)1/8 is devided by 's' , if 's' is incresed by 2 times, what is the

result.

ans:increses two times.

section 2. letter series

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1. a c b d f e g i \_\_ ans: h

2. x y z u v w r s t \_\_ ans: o

3. a c f j o \_\_ ans:u

section 3. numerical ability

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1. 10099+99=10198

2. 31 - 29+2/33=\_\_ ans:64/33

3. 2.904+0.0006=\_\_\_ ans: 2.9046

4. 55/1000=\_\_\_ ans:.005

5. 0.799\*0.254= 0.202946

6. 200/7\*5.04=144

7. 842.8 +602=1444.8

8. 5.72% of 418= 23.9096

9. 625% of 7.71=48.1875

10. 25% of 592=148.00

11. 665+22.9=687.9

12. 15% of 86.04=12.906