Aptitude Test

100 Marks

All questions carry equal marks. Answer all questions. Read instructions carefully and mark the correct answer using a Tick () mark in the appropriate box in the separately supplied. Marks placed other than in the box will not be considered.

Direction: Fill in the gap mentioned as question mark from the four options given below:-

4
$$\left(1\frac{3}{8}^{5} + 9\frac{3}{8}\right) - \left(1\frac{5}{2}^{2} + 7\frac{3}{6064}\right) = ?$$
a) 0
b) 23 c) 46

$$\frac{5}{13} \times \frac{6}{13} \times 5 \frac{1930}{13} = ?$$
a) 0 b) $\frac{1}{13}$ c) $\frac{2}{13}$ d) 1

6When simplified the product?

8What least value must be given to * so that the number 451 * 603 is exactly divisible by 9 a) 2 b) 5 c) 8 d) 7

9On dividing a number by 999, the quotient is 366 and the remainder is 103. The number is a) 364724 b) 365737 c) 365387 d) 366757

10The L.C.M. of 23 x32x5x11, 23x3x5x7 and 25x33x53x7x11 is

- a) 25x34x5x72x11
- b) 25x34x53
- c) 23x32x5x7x11
- d) 23x32x5

11The HCF of two numbers is 11 and their LCM is 7700. If one of these numbers is 275, then the other one is

- a) 279
- b) 283
- c) 318
- d) 308

12The expression (11.98x11.98 + 11.98 x X + 0.02 x 0.02) will be a perfect square for X equal to c) 0.2 d) 0.4

- a) 0.02
- b) 0.04

13Find the greatest fraction of

- a) ____ b) <u>41</u> c) <u>41</u> d) ___

14Arrange in descending order

a) IV II III I

b) II IV I III

c) II I IV III

d) IV III I II

$$\frac{63}{81} \Rightarrow \frac{?}{81}$$

- a) 36

- b) 49 c) 7 d) $\frac{1}{49}$

16?- \ 0.04 = 2

- a) 1.8 b) 2.04 c) 2.2 d) $\sqrt{1.6}$

17If 45 -[28-(37-{15-*})]=58 then * =

- a) -19
- b) 29
- c) -29
- d) 19

1875983x 75983 - 45983 x 45983 / 30000 = ?

- a) 121796
- b) 121966
- c) 121866
- d) 121956

19(51+52+53+ +100) is equal to

- a) 3775
- b) 2525
- c) 2975
- d) 3225

20A gardener arranges 441 plants in such a way that each one contains as many plants as there are rows. Find the plants in a row.

- a) 20
- b) 22
- c) 21
- d) 23

21The next number in the sequence

22The greatest possible length of scale to measure exactly 6 mt 25 cm, 9 mtr 50 cm and 12 mt 25 cm is

- a) 50 cm
- b) 25 cm
- c) 125 cm
- d) none of these

23If 5+ 2 $\sqrt{3}$ / 7 + 4 $\sqrt{3}$ = a+b $\sqrt{3}$

- a) a=11, b=-6
- c) a=-11, b=6
- d) a=-11, b=-6

24Which of the following numbers is prime?

- a) 117
- b) 147
- c) 159
- d) 149

25A boy was asked to multiply a number by 7/8 Instead he divided the number by 7/8 and got the result 15 more than the correct result. The number was

- a)
- 96
- c) 56
- d) 65

26The eigth term of 9,6,3,0..... is

- a) 8

b) 36

- b) -12 c) -14

27The expression log $\frac{11+\log}{5}$ $\frac{14-\log}{3}$ $\frac{22i}{15}$ equal to a) log 2 d) log 5

28lf a=1.2, b=2.1, C=-3.3 find the value of a3+b3+c3-3abc

- b) 11 c) 2 d) 3

 $\frac{3}{2}$, the value of $\frac{2x+y}{x-xy}$ 29if

30The difference between the place values of 7 and 3 in the number 527435 is b) 6790 c) 3690 d) 6970 a) 4070

DIRECTION TO Q.No. TO 31 TO 35: The following questions consists of two words each of them have certain relationship to each other, followed by four lettered pairs of words. Select the lettered pair that has the same relationship as of the original pair of words.

31Trees: Branches

a) River: Tributaries b) Continent: Island c) Stream : Delta d) Ocean: Seas

32Relax : work
a) Play : Cheat
b) Lunch : Dinner
c) Smile : Laugh
d) Fresh : Stale

33Square: Cube

a) Line: Cylinder c) Circle b) Triangle: Prism : Sphere 34Carnivore: d) Sphere: Earth

Herbvivore

a) Animal : Bird b) Camel : Giraffe c) Flesh : Plant d) Horse : Lion

35Accident : Mishap

b) Eminent a) Webstribtus Sudden d) Dearth: E) Eratvify: Provoke

DIRECTION FOR Q.No. TO 36 TO 39: In each of the following questions two words indicated by I and II have been left out. The correct word to come in place of 1 is given as one of the four alternatives against one and the correct word to come in place two is given as one of the four alternatives against two. Read with correct words, there is some relationship between the two words to the left of the sign (: :) and the same relationship obtains between the two words to the right of sign (: :). The correct combination is given as one the four alternatives (A), (B), (C), and (D) find the correct combination in each case.

36I: Insert:: Active II

I (a) static (b) statics (e) Helium (d) Air

II (e) Gymnast (f) Dynamic (g) Participation (h) Smart

(A) af (B) be (C) ch (D) dg

37I: Ocean:: Stone II

I (a) Glacier (b) lake (c) Continent (d) River

II (e) Rock (f) Pebble (g) Granite (h) Mountain

(A) ag (B)be (C) ch (D) df

38I: Dog:: Goat II

I (a) Bitch (b) Pubby (c) Cat (d) Colt II (e) lamp (f) Cub (g) Pony (h) Farrow

(A) ch (B)af (C) dg (D) be

39I: Shoe:: Table II

I (a) Foot (b) Socks (c) Heel (d) Factory
II (e) Drawer (f) Chair (g) Wood (h) Carpenter

(A) af (B)dh (C) ce (D) bg

DIRECTION FOR Q. NO.40 & 41: In each of the following question a group three interrelated words is given. Choice a word from the given alternatives, that belongs to the same group.

	40Patna : Bombay : Di	Patna : Bombay : Dispur						
	a) Cochin 41Potato : Carrot : Ra		mbay	c) Udayapur	d) Madras			
	a) Tomato	b) Gro	und	c) Spinach	d) Sesame			
DI	RECTION FOR Q. NO.	42 to 45 : E	ach of the foll	lowing question	as for alternative responses.			
	42Which of the following	ng is the sar	ne as flood, fir	e, Cyclone?				
	a) Damage	b) Earl	thquake	c) Rain	d) Accident			
	43Which of the following	ng is the san	ne as Rabbit,	Rat, Mole?				
	a) Mongoose	b) Fro	9	c) Earthworm	d) Ant			
	44Which of the following	ng is the sar	ne as Measles	s, Rabies, Canc	er?			
	a) Pneumonia	b) Dial	oetes	c) Tetanus	d) Hepatitis			
	45Which of the following	ng is the san	ne as Wrestlir	ng, Karate, Boxii	ng?			
	a) Swimming	b) Jud	0	c) Pole Vault	d) Polo			
					ons, a sequence of group of letters ng term of the given alternatives.			
	46J2Z, K4X, I7V,? H16	6R, M22P						
	a) 111T	b) L11S	c) L12T	d) L11T				
	47Q1F, S2E, U6D, W2	1C,?						
	a) Y66B	b) Y44B	c) Y88B	d) Z88B				
	48In a certain code, Mo	ONKEY is w	ritten as XDJI	MNL, How is TI	GER written in that code			
	a) QDFHS 49If a certain language	b) SDF NATURE is	,	SHFDQ d) UJ ASUQE, How is	HFS FAMINE coded in that code.			
	a) FBMJND	b) FZN	MHND c)	GANIOE d) EA	LIME			
	50lf clock is called tele called Iron, in what			ven, oven is call	ed grinder and grinder is			
	a) Radio	b) Oven	c) Grinder	d) Iron				
	51lf train is called bus, scooter is call bicyc							
	a) train	b) bus	c) tractor	d) car				

husband". How is the man on the stage related to Rita?										
	a) Son	b) Husbar	nd c) C	Cousin	b) Brother-in-law					
	53Rahul told Anand "Yesterday I defeated the only brother of the daughter of my grand mother". Whom did Rahul defeat									
	a) Son	b) Father	c) B	Brother	b) Father-in-law					
	54There are five different houses A to E in a row. A is the right of B and E is the left of C and right of A, B is to the right of D which of the house is in the middle.									
	a) D b) B c) A d) E									
	55A man is facing south. He turns 135 degrees in the anticlockwise direction and then 180 degree in the clockwise direction. Which direction he is facing now?									
	a)North-Eas	t b) North-We	est	c) South-East	d) South-West				
56Whio	ch of the follow	ving sets is b	est repres	ented in	the adjoining diagra	ım				
	 a) Animals, Insects, Cockroaches, b) Country, States, Districts c) Animals, Males, Females and Hermaphrodites d) State, Districts, Union Territory 									
DIRECTIO	ON FOR Q. N	O.57 to 60 : I	In the figur	e aiven b	elow, there are thre	ee intersecting				
circles ead Read the	DIRECTION FOR Q. NO.57 to 60: In the figure given below, there are three intersecting circles each representing certain section of the people. Different regions are marked a to g. Read the statements in each of the following questions and choose the letter of the region which correctly represents the statement.									
	Chinese Chinese Painter									
57Chin	ese who are բ	painters but r	Musicia not musicia							
	a) b	b) c	c) d	d) g						
EQD = in-	•	,	•							
58Painters who are neither Chinese nor musicians										
	a) b	b)c	c) f	d) g						
59Chinese who are musicians but not painters										
	a) c	b) d	c) b	d) a						
60Chin	ese who are ր	painters as w	ell as mus	sicians						
	a) a	b) b	c)c	d) d						

52Pointing to an man on the stage, Rita said "He is the brother of the daughter of the wife of my

DIRECTION FOR Q. NO. 61 TO 64:

- i) Jayanth, Kamal, Namitha, Asha and Tanmay are five members of a family.
- ii) They have birth dates from January to May, each member in one of these months
- iii) Each one likes one particular item for his / her birthday out of Bengali sweets, chocolates, Pastries', Ice cream & dry fruits
- iv) The one liking pastries' is born in the month which is exactly middle in the months given.
- v) Asha does not like ice cream but bring chocolates for Jayanth in February.
- vi) Tanmay who is pond of Bengali sweets is born in the next month immediately after Namitha

61What is the choice of Asha?

a) Pastries

b) Dry fruits

c) Bengali Sweets

d) None of them

62Which combination of month & item is true for Javanth

a) March - Pastries'

b) February-Pastries

c) February-Ice cream

d) None of these

63What is the choice of Kamal

a) Ice cream

b) Bengali Sweets

c) Dry fruits

d) None of these

64In which month was Kamal born

a) January

b) May

c) January or May

d) None of these

DIRECTION FOR Q. NO. 65 TO 69:

In Car exhibition seven cars of seven different companies namely: Cardilac, Ambassador, Fiat Maruti, Mercedes, Bedford and Fargo were displayed in a row facing east such that

1Cardilac car was to the immediate right of Fargo

2Fargo was fourth to the right of Fiat

3Maruthi car was between Ambassador and Bedford

4Fiat which was third to the left of Ambassador car was at one of ends.

65Which of the following was the correct position of the Mercedes.

a) Immediate right of Cardilac

b) Immediate left of Bedford

c) Between Bedford and Fargo

d) Fourth to the right of Maruthi

66Which of the following is true

- a) Fargo car is between Ambassador and Fiat
- b) Cardilac car is to the immediate left of Mercedes
- c) Fargo is to the immediate right of Cardilac
- d) Maruthi is the fourth to the right of Mercedes

67Which cars are on the immediate either sides of the Cardilac car?

a) Ambassador and Maruthi

b) Maruthi & Fiat

c) Fiat & Mercedes

d) None of these

68Whia	ch of the follow	ina is true						
COVVIII	a) Maruthi is immediate left of Ambassador b) Bedford is to immediate left of Fiat c) Bedford is at one of the ends.							
69Whid	d) Fiat is to the second to the right of Maruthi 69Which of the following group of car is to the right of Ambassador car? a) Cardilac, Fargo & Maruthi b) Maruthi, Bedford & Fiat c) Mercedes, Cardilac & Forgo d) Bedford, Cardilac & Forgo							
sec	7036 vehicles are parked in the single row. After the first car there is one scooter after the second car there are two scooters, after the third car there are three scooters and so on work out the number of scooters in the second half of the row. a) 10 b) 12 c) 15 d) 17							
	71How many numbers from 1 to 100 are there each of which is not only exactly divisible by four but also has 4 as a digit							
	a) 7	•	20	d) 21				
72A nu	ımber greater t a) 5		han 8 also) 7	it is greate d) 9	er than 6 but less	than 10. The number is		
73In row of trees one tree is fifth from either end of the row. How many tree are there in a row a) 8 b) 9 c) 10 d) 11								
74The tax on a commodity is dimnished by 20% and its consumption increases by 15%. The effect on revenue is								
	a) Decreasec) Decrease		,	Decrease None of the	•			
75A Gardener want to plant 17956 trees in his garden and arranges in such away that there are as many as trees in a row. What is the total number of the trees in a row?								
	a) 56	b) 67	c) 47		d) 52			
76If the length and breath of rectangular plot are increased by 50% and 20% respectively, the new areas will be how many times than that of original area?								
	a) 4	b) 9/6	c) 11/5		d) 9/5			

77The Average weight of a class of 29 students is 40 kgs. If the weight of the teacher be included, grms the average rises by 500 grms. What is the weight of the teacher?

a) 45 Kg b) 55 Kg c) 62 Kg d) 40 Kg

78A mixture contains alcohol and water in the ratio of 4:3. If 7 ltrs of water is added to the mixture the ratio of alcohol and water becomes 3:4. Find the quantity of alcohol in the mixture.

a) 12 ltrs b) 8 ltrs c) 9 ltrs d) 15 ltrs.

	a) 2 Hours 45 c) 2 Hours 30			b) 3 Hou d) None		ese			
80The diameter of the driving wheel of a bus is 140 Cm. How many revolution per minute must the wheel make to keep a speed of 60 Km per hour									
	a) 210	b) 230	c) 2°	10	d) 2	50			
81The	weigh of an obj	ject would be	miniumu	m when i	t is p	laced	at the		
	a) North pole c) Equator		b) South d) Centre	pole e of the e	arth				
	r and a loaded k, the car shall		ving with	the same	spe	ed alo	ng a road.	As compare	ed to the
	a) More kineti c) Less kineti			b) More d) Less					
83Whe	n two bodies st	tick together	after collis	sion, the o	collis	ion is :	said to be		
	a) Partially elactic	astic		b) Elasti d) None		ie abo	ve.		
84A red hot steel bar is an example of a) Mechanical Energy c) Kinetic Energy b) Vibrational Energy d) None of the above.									
85The time taken by light to travel from the sun to the earth is approximately a) 8 seconds b) 8 minutes c) 8 hours d) 8 light years									
86The velocity of sound is largest in a) Air b) Water c) Oil d) Steel									
87The	super sonic spo a) Mach num		roplane is Decibel	•	ed in lertz		d) None o	of them	
88The quality of sound is judged by a) Its frequency b) Its various over tones c) longer wave lengths d) All the above									
89One	can't hear soui a) Light	nd on the mo b) Atmosph		se it has c) Darkn			d) None d	of the above	
90A spherical mirror is nothing but one a) A spherical ball polished on its surface b) A plane mirror only c) A large number of plane mirrors equally inclined to each other d) None of the above.									

79Walking 6/7 of his usual speed, a man is the 25 Minutes too late. Find the usual time.

91The type of radiation e a) Alpha rays c) Gama rays	mitted by radio acti b) Beta ı d) All of	rays	are					
92Which of the following a) Hailey's	comets appear after b) Home's	er 76 years? c) Donati's	d) Alpha	centuari				
93The angle in the case a) 90 degrees	of water molecule is b) 180 degrees		•	d) 75 degrees				
94Atoms with the same a a) Isotones	atomic number but of b) Isobars	different mass c)Isomer	numbers are ca d) Isotope					
95Which type of cell divis a) Mitosis	sion occurs in cance b) Meiosis	er cells? c) both a & b	d) Cell div	vision doesn't occur				
96The sensation of fatigue in the muscles after prolonged strenuous physical work is caused by a) decrease in supply of oxygen b) Minor wear and tear of muscle fibres c) Accumulation of lactic acid d) None of the above.								
97Milk, Meat and Eggs a	re good sources of							
a) Fats b)	Carbohydrates	c) Prote	ins d) V	/itamins				
98Saffron is dried a) Flower buds	b) Styles	c) Stigmas	d) Perian	:h				
99Animal which uses sou a) Dog b)	und as its "eyes" is Bat c) cat	d) s	nake					
100The computer speed is a) Kilobyte	s measured in b) Bites	c) Hertz	d) Megabyte					