Aptitude Test

100 Marks

All questions carry equal m

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:-

$$1\frac{8}{9} + \frac{3}{7} + \frac{2}{3} + ? = \frac{158}{63}$$

- a) 145 b) 11 c) 111 d) 145 21 63

$$\frac{1}{\sqrt{3}} + \frac{1}{2\sqrt{3}} + \frac{1}{3\sqrt{3}} = ?$$

- a) $\frac{11}{6\sqrt{3}}$ b) $\frac{6\sqrt{3}}{11}$ c) $\frac{2\sqrt{3}}{11}$ d) $\frac{3\sqrt{3}}{11}$

$$3 2 \frac{1}{17} 2 \frac{1}{17} - ? = 2 \frac{1}{17}$$

- a) $\frac{1}{17}$ b) $2\frac{1}{17}$ c) $1\frac{1}{17}$ d) $\frac{17}{13}$

$$4 \qquad \left(13 - \frac{5}{8} + 9 - \frac{3}{8}\right) - \left(15 - \frac{2}{5} + 7 - \frac{3}{5}\right) = ?$$

- a) 0
- b) 23 c) 46
- d) 64

$$\frac{5}{13}$$
 x $\frac{6}{13}$ x $5\frac{19}{30}$ = ?

- a) 0 b) <u>1</u> c) <u>2</u> d) 1

6 When simplified the product?

$$(2-\frac{1}{3})$$

$$(2-\frac{3}{5})$$

$$\left(2-\frac{5}{7}\right)$$
 ...

$$\left(2-\frac{1}{3}\right)$$
 $\left(2-\frac{5}{7}\right)$ $\left(2-\frac{997}{999}\right)=$?

7
$$(856+167)^2 + (856-167)^2$$
 $(856X856) + (167X167)$
a) 1 b) 2 c) 689 d) 1023

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

- a) 2

- 9 On 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

10 T	he L.C.M. of 2	2 ³ x3 ² x5x11,	$2^3x3^3x5^2x7^2$	and 2 ⁵ x3 ³	x5 ³ x7 ² x11	l is	
		a) $2^5 x 3^4 x 5^3$	x7 ² x11	b) 2 ⁵ x3 ⁴	x5 ³		
		c) 2 ³ x3 ² x5x	7x11	d) 2 ³ x3 ²	x5		
	he HCF of two		s 11 and their	r LCM is 7	700. If on	e of these numbers is 2	75,
		a) 279	b) 283	c) 3	18	d) 308	
12 T	he expression		98 + 11.98 x b) 0.04			l be a perfect square for	X equal to
13 F	ind the greate $\frac{41}{37}$		f 41 17, 41 7	_			
		a) <u>41</u> 7	b) 41 17	c) 41 27	d)	<u>41</u> 77	
14 A	arrange in des 1.2, 2.1,0	_	er				
	a) IV II II	1.1	b) I	I IV I III			
	c) II I IV	Ш	d) I	V III I II			
15	<u>63</u> ⇒	? 81					
	a) 36	b) 49	c) 7 d)	1 49			
16 ?	-\ 0.04 =2						
	a) 1.8	b) 2.04	c) 2	2.2 d) \	1.6		

b) 29

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

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

c) -29

d) 121956

b) 121966

20 A 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.

c) 121866

a) 20

a) -19

a) 121796

b) 22

c) 21

d) 23

d) 19

21 The next number in the sequence

$$\frac{4}{23}$$
 , $\frac{9}{24}$, $\frac{16}{24}$, $\frac{25}{26}$, $\frac{36}{27}$ is

22 The 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

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

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

24 Which of the following numbers is prime?

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

25 A 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
- b) 36
- c) 56
- d) 65

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

- a) 8
- b) -12 c) -14

27 The expression log 11 + log 14 - log 22 is equal to $\frac{22}{5}$ is equal to

- a) log 2
- b) log 3 c) log 7
- d) log 5

28 If a=1.2, b=2.1, C=-3.3 find the value of $a^3+b^3+c^3$ -3abc

- a) o b) 11 c) 2 d) 3

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

- a) $\frac{1}{7}$ b) $\frac{7}{10}$ c) 7 d) $\frac{10}{7}$

30 The difference between the place values of 7 and 3 in the number 527435 is

- b) 6790
 - c) 3690
- d) 6970

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.

31 Trees: Branches

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

32 Relax: work a) Play: Cheat b) Lunch: Dinner c) Smile: Laugh d) Fresh: Stale 33 Square: Cube a) Line: Cylinder b) Triangle: Prism c) Circle: Sphere d) Sphere: Earth 34 Carnivore : Herbvivore a) Animal: Bird b) Camel: Giraffe c) Flesh: Plant d) Horse: Lion 35 Accident : Mishap a) Abrubt : Sudden b) Eminent: Notorious c) Pacify: Provoke d) Dearth: Plenty 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. 36 I: 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 37 I: Ocean:: Stone II I (a) Glacier (b) lake (c) Continent (d) River II (e) Rock (f) Pebble (g) Granite (h) Mountain (C) ch (D) df (A) ag (B) be 38 I: Dog : : Goat II I (a) Bitch (b) Pubby (c) Cat (d) Colt II (e) lamp (f) Cub (g) Pony (h) Farrow

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.

(B) af

(B) dh

(A) ch

(A) af

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

39 I: Shoe :: Table II

(C) dg

(C) ce

(D) be

(D) bg

	40 Patna : Bombay : Dispur							
		a) Cochin	b) Tro	mbay	c) Udayapur	d) Madras		
	41 Pota	ato : Carrot : R	adish					
		a) Tomato	b) Gro	ound	c) Spinach	d) Sesame		
DI	IRECTIO	ON FOR Q. NC). 42 to 45 :	Each of the fo	llowing question	as for alternative responses.		
	42 Whi	ch of the follow	ving is the sa	ame as flood,	fire, Cyclone?			
		a) Damage	b) Ea	rthquake	c) Rain	d) Accident		
	43 Whi	ch of the follow	ving is the sa	ame as Rabbit	t, Rat, Mole?			
		a) Mongoose	b) Fro	g	c) Earthworm	d) Ant		
	44 Whi	ch of the follow	ving is the sa	ame as Measl	es, Rabies, Can	cer?		
		a) Pneumonia	a b) Dia	betes	c) Tetanus	d) Hepatitis		
	45 Whi	ch of the follow	ving is the sa	ame as Wrestl	ing, Karate, Box	king?		
		a) Swimming	b) Jud	do	c) Pole Vault	d) Polo		
						ons, a sequence of group of lette ng term of the given alternatives		
	46 J2Z	, K4X, I7V,? H	I16R, M22P					
		a) 111T	b) L11S	c) L12T	d) L11T			
	47 Q1F	F, S2E, U6D, W	V21C,?					
		a) Y66B	b) Y44B	c) Y88B	d) Z88B			
	48 In a	certain code, l	MONKEY is	written as XD	JMNL, How is T	IGER written in that code		
	49 If a	a) QDFHS certain langua	b) SD ge NATURE	,	,	JHFS is FAMINE coded in that code.		
		a) FBMJND	b) FZ	MHND c)	GANIOE d) E	ALIME		
		ock is called te ed Iron, in wha	•		oven, oven is ca	alled grinder and grinder is		
		a) Radio	b) Oven	c) Grinder	d) Iron			
						r, car is called scooter, o plough a field?		
		a) train	b) bus	c) tractor	d) car			

	52 Pointing to an man on the stage, Rita said "He is the brother of the daughter of the wife of my husband". How is the man on the stage related to Rita?								
	a)	Son	b) Husban	d c) C	Cousin	b) Brother-in-law	,		
		old Anand ' did Rahul d	•	defeated	the only b	prother of the dau	ghter of my grand mother".		
	a)	Son	b) Father	c) B	Brother	b) Father-in-law			
	54 There 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				
	55 A 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-Ea	st b)) North-We	est	c) South-East	d) South-West		
56 V	Vhich o	f the follow	ving sets is l	best repre	sented in	the adjoining diag	ıram		
	 a) Animals, Insects, Cockroaches, b) Country, States, Districts c) Animals, Males, Females and Hermaphrodites d) State, Districts, Union Territory 								
circles of 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	← a d	b f c e g) → Pai	nter			
57 C	Chinese	who are p	ainters but	Musicia not musici					
		a) b	b) c	c) d	d) g				
58 F	ainters	who are n	neither Chin	ese nor m	usicians				
		a) b	b)c	c) f	d) g				
59 Chinese who are musicians but not painters									
		a) c	b) d	c) b	d) a				
60 C	60 Chinese who are painters as well as musicians								
		a) a	b) b	c)c	d) d				

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
- 61 What is the choice of Asha?
 - a) Pastries b) Dry fruits c) Bengali Sweets d) None of them
- 62 Which combination of month & item is true for Jayanth
 - a) March Pastries'b) February-Pastriesc) February-Ice creamd) None of these
- 63 What is the choice of Kamal
 - a) Ice creamb) Bengali Sweetsc) Dry fruitsd) None of these
- 64 In 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

- 1 Cardilac car was to the immediate right of Fargo
- 2 Fargo was fourth to the right of Fiat
- 3 Maruthi car was between Ambassador and Bedford
- 4 Fiat which was third to the left of Ambassador car was at one of ends.
- 65 Which of the following was the correct position of the Mercedes.
 - a) Immediate right of Cardilacb) Immediate left of Bedfordc) Between Bedford and Fargod) Fourth to the right of Maruthi
- 66 Which 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
- 67 Which cars are on the immediate either sides of the Cardilac car?
 - a) Ambassador and Maruthib) Maruthi & Fiatc) Fiat & Mercedesd) None of these

a) Maruthi is immediate left of Ambassador b) Bedford is to immediate left of Fiat c) Bedford is at one of the ends. d) Fiat is to the second to the right of Maruthi 69 Which 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								
70 36 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								
	71 How 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 b) 10 c) 20 d) 21							
72 A number greater a) 5		s than 8 also c) 7	it is grea d) 9	iter than 6 but less than 10.	The number is			
73 In row of trees on a) 8		rom either ei c) 10	nd of the r d) 11	row. How many tree are the	re in a row			
74 The tax on a commodity is dimnished by 20% and its consumption increases by 15%. The effect on revenue is a) Decrease by 12 % b) Decrease by 9 % c) Decrease by 8 % c) None of them								
				nd arranges in such away that of the trees in a row?	at there are			
a) 56	b) 67	c) 47		d) 52				
76 If 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				
77 The 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	9	d) 40 Kg				
78 A 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.				

79 Walking 6/7 of his usual speed, a man is the 25 Minutes too late. Find the usual time.							
a) 2 Hours 45.Minutes b) 3 Hours c) 2 Hours 30.Minutes d) None of these	,						
80 The 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) 210 d) 250							
81 The weigh of an object would be miniumum when it is placed at the							
a) North pole b) South pole c) Equator d) Centre of the earth							
82 A car and a loaded truck are moving with the same speed along a road. As compared to the truck, the car shall possess.	ıe						
a) More kinetic energy b) More potential energy c) Less kinetic energy d) Less potential energy							
83 When two bodies stick together after collision, the collision is said to be							
a) Partially elasticb) Elasticc) Inelasticd) None of the above.							
84 A red hot steel bar is an example of							
a) Mechanical Energyb) Vibrational Energyc) Kinetic Energyd) None of the above.							
85 The 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							
86 The velocity of sound is largest in a) Air b) Water c) Oil d) Steel							
87 The super sonic speed of an Aeroplane is expressed in a) Mach number b) Decibel c) Hertz d) None of them							
88 The quality of sound is judged by a) Its frequency b) Its various over tones c) longer wave lengths d) All the above							
89 One can't hear sound on the moon because it has no a) Light b) Atmosphere c) Darkness d) None of the above.							
 90 A 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. 							

91 The type of rac a) Alpha r c) Gama	•	dio active substar Beta rays All of these	nce are			
92 Which of the fo a) Hailey's	ollowing comets app s b) Home's	•		centuari		
93 The angle in th a) 90 deg	e case of water mol rees b) 180 de		nately 5 degrees	d) 75 degrees		
94 Atoms with the a) Isotone	same atomic numb s b) Isobars		ass numbers are ca d) Isotope			
95 Which type of a Alitosis	cell division occurs i b) Meiosis		& b d) Cell div	vision doesn't occur		
96 The 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.						
97 Milk, Meat and	Eggs are good sou	rces of				
a) Fats	b) Carbohydrat	tes c) Pro	teins d) \	/itamins		
98 Saffron is dried a) Flower		c) Stigma	s d) Perian	th		
99 Animal which ι a) Dog	uses sound as its "ey b) Bat c)	?) snake			
100 The computer a) Kilobyt	speed is measured e b) Bites	in c) Hertz	d) Megabyte			