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:-

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

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

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

- 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?

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

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

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

$$(2-\frac{997}{999})=$$

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 Pa	Patna : Bombay : Dispur							
		a) Cochin	b) Tro	mbay	c) Udayapur	d) Madras			
	41 Po	tato : Carrot : R	adish						
		a) Tomato	b) Gro	ound	c) Spinach	d) Sesame			
D	IRECTI	ON FOR Q. NO). 42 to 45 : E	Each of the fol	lowing question	as for alternative responses.			
	42 Wh	nich of the follow	ving is the sa	ame as flood, f	ire, Cyclone?				
		a) Damage	b) Ear	thquake	c) Rain	d) Accident			
	43 Wh	nich of the follow	ving is the sa	ıme as Rabbit	, Rat, Mole?				
		a) Mongoose	b) Fro	g	c) Earthworm	d) Ant			
	44 Wh	nich of the follow	ving is the sa	ime as Measle	es, Rabies, Can	cer?			
		a) Pneumoni	a b) Dia	betes	c) Tetanus	d) Hepatitis			
	45 Wh	nich of the follow	ving is the sa	ame as Wrestli	ing, Karate, Box	king?			
		a) Swimming	b) Jud	О	c) Pole Vault	d) Polo			
					• •	ons, a sequence of group of lette ng term of the given alternatives			
	46 J22	Z, K4X, I7V,? F	116R, M22P						
		a) 111T	b) L11S	c) L12T	d) L11T				
	47 Q1	F, S2E, U6D, V	V21C,?						
		a) Y66B	b) Y44B	c) Y88B	d) Z88B				
	48 In a	a certain code,	MONKEY is	written as XD	JMNL, How is T	IGER written in that code			
	49 If a	a) QDFHS certain langua	b) SDI ge NATURE	,	,	JHFS is FAMINE coded in that code.			
		a) FBMJND	b) FZN	MHND c)	GANIOE d) E	ALIME			
		lock is called te led 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	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) Husband	d c) C	ousin	b) Brother-in-law			
53	53 Rahul 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	rother	b) Father-in-law			
54	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		n is facing so clockwise di					ection and then 180 degree		
		a) North-Ea	st b)	North-We	est	c) South-East	d) South-West		
56	6 Whic	h of the follow	ving sets is b	est repres	sented in	the adjoining diagra	ım		
	 a) Animals, Insects, Cockroaches, b) Country, States, Districts c) Animals, Males, Females and Hermaphrodites d) State, Districts, Union Territory 								
circle Read	es each d the st	n representing	g certain secteach of the fo	tion of the	people.	elow, there are three Different regions ar and choose the lett			
		Chinese	← a d	b f c e g) → Pai	nter			
57	Chine	ese who are p	painters but r	Musiciar not musicia					
		a) b	b) c	c) d	d) g				
58	3 Paint	ers who are r	neither Chine	se nor mu	ısicians				
		a) b	b)c	c) f	d) g				
59	Chine	ese who are r	musicians bu	t not paint	ers				
		a) c	b) d	c) b	d) a				
60) Chine	ese who are p	oainters as w	ell as mus	sicians				
		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 number but also has 4 as a) 7	a digit	00 are there c) 20	each of w	hich is not only exactly divis	ible by four			
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			
The effect on reve a) Decrease	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				
				 If 7 Itrs of water is added quantity of alcohol in the mix 				
a) 12 ltrs	b) 8 ltrs	c) 9 ltrs		d) 15 ltrs.				

79 Wa	alking 6/7 of his usual spee	d, a man is	the 25 Minut	es too lat	te. Find the us	sual time.	
	a) 2 Hours 45.Minutes c) 2 Hours 30.Minutes		b) 3 Hours d) None of these				
	e diameter of the driving w ust the wheel make to keep				ny revolution p	per minute	
	a) 210 b) 230	c) 21	0 d) :	250			
81 Th	e weigh of an object would	be minium	ım when it is	placed at	the		
	a) North polec) Equator	b) South d) Centre	pole e of the earth	1			
	car and a loaded truck are ck, the car shall possess.	moving with	the same sp	eed alon	g a road. As c	ompared to the	
	a) More kinetic energyc) Less kinetic energy		b) More pote d) Less pote				
83 WI	nen two bodies stick togeth	er after colli	sion, the coll	lision is sa	aid to be		
	a) Partially elasticc) Inelastic		b) Elastic d) None of t	he above			
84 A	red hot steel bar is an exan	nple of					
	a) Mechanical Energyc) Kinetic Energy		b) Vibrational d) None of t	• • • • • • • • • • • • • • • • • • • •			
85 Th	e time taken by light to trav a) 8 seconds b) 8	vel from the minutes	sun to the ea c) 8 hou		oroximately d) 8 light y	ears	
86 Th	e velocity of sound is large a) Air b) Water	st in	c) Oil	d) Steel			
87 Th	e super sonic speed of an a) Mach number b	Aeroplane is o) Decibel	s expressed c) Hertz		None of them		
88 Th	e quality of sound is judged a) Its frequency c) longer wave lengths	b) Its	various ove	er tones			
89 Or	ne can't hear sound on the a) Light b) Atmosp		ıse it has no c) Darkness		None of the a	bove.	
90 A s	spherical mirror is nothing to a) A spherical ball polish b) A plane mirror only c) A large number of plad) None of the above.	ned on its su		ed to each	n other		

	91 The	type of radiation a) Alpha rays c) Gama rays		radio action b) Beta radio d) All of the	ays			
	92 Whi	ch of the follow a) Hailey's	ring comets a b) Hom		er 76 years? c) Donati's	d) Alpha	a centuari	
	93 The	angle in the ca a) 90 degrees		nolecule is degrees	s approximate c) 105 de	•	d) 75 degrees	
	94 Ator	ns with the san a) Isotones	ne atomic nu b) Isob		different mass c)Isomer	s numbers are d) Isoto		
	95 Whi	ch type of cell o a) Mitosis	division occu b) Meio		er cells? c) both a & b	d) Cell (division doesn't occur	
	96 The	sensation of fa a) decrease in b) Minor wear c) Accumulati d) None of the	n supply of ox and tear of rong on of lactic a	kygen muscle fibr		d strenuous ph	nysical work is caused b	у
	97 Milk	, Meat and Egg	gs are good s	ources of				
		a) Fats	b) Carbohyo	drates	c) Protei	ns d)	Vitamins	
	98 Saff	ron is dried a) Flower bud	ls b) Style	es	c) Stigmas	d) Peria	nth	
	99 Anin	nal which uses a) Dog	sound as its b) Bat	"eyes" is c) cat	d) s	nake		
1	100 The	computer spee a) Kilobyte	ed is measure b) Bites		c) Hertz	d) Megabyte		