## 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)  $\frac{145}{21}$  b)  $\frac{11}{21}$  c)  $\frac{111}{63}$  d)  $\frac{145}{63}$

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

- 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)  $1\frac{1}{17}$

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

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

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

- a) 0 b) 1 c) 2 d) 1

6 When simplified the product?

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

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

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

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

- a) <u>5</u> b) <u>1001</u> c) <u>1001</u> d) None

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
  - a) 2
- b) 5 c) 8 d) 7

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 The L.C.M	. of $2^3 \times 3^2 \times 5 \times 11$ , $2^3 \times 3^3 \times 5^2 \times 10^3 \times 10^3$	7 <sup>2</sup> and 2 <sup>5</sup> x3 <sup>3</sup> x5 <sup>3</sup> x7 <sup>2</sup> x11 is
	a) $2^5 \times 3^4 \times 5^3 \times 7^2 \times 11$	b) 2 <sup>5</sup> x3 <sup>4</sup> x5 <sup>3</sup>
	c) 2 <sup>3</sup> x3 <sup>2</sup> x5x7x11	d) 2 <sup>3</sup> x3 <sup>2</sup> x5
11 The HCF of	of two numbers is 11 and th	eir LCM is 7700. If one

- of these numbers is 275,
  - a) 279
- b) 283
- c) 318
- d) 308
- 12 The expression (11.98x11.98 + 11.98 x X + 0.02 x 0.02) will be a perfect square for X equal to a) 0.02 b) 0.04 c) 0.2 d) 0.4
- 13 Find the greatest fraction of

$$\frac{41}{37}$$
,  $\frac{41}{27}$ ,  $\frac{41}{17}$ ,  $\frac{41}{7}$ 

14 Arrange in descending order

a) IV II III I

b) II IV I III

c) II I IV III

d) IV III I II

- a) 36
- b) 49
- c) 7

- 16 ?-\ 0.04 =2
  - a) 1.8
- b) 2.04
- c) 2.2
- 17 If 45 -[28-(37-{15-\*})]=58 then \* =
  - a) -19
- b) 29
- c) -29
- d) 19
- $1875983 \times 75983 45983 \times 45983 / 30000 = ?$ 
  - a) 121796
- b) 121966
- c) 121866
- d) 121956
- 19 (51+52+53+ ..... +100) is equal to
  - a) 3775
- b) 2525
- c) 2975
- d) 3225
- 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.
  - a) 20
- b) 22
- c) 21
- d) 23

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 eight term of 9,6,3,0..... is

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

27 The expression  $\log \frac{11}{5} + \log \frac{14}{3} - \log \frac{22}{15}$  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

- b) 11 c) 2 d) 3

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

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

30 The difference between the place values of 7 and 3 in the number 527435 is a) 4070 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 (D) dg (A) af (B) be (C) ch 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 (A) ag (B) be (D) df 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.

(C) dg

(C) ce

(D) be

(D) bg

(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

	40 Pati	na : Bombay :	Dispur			
		a) Cochin	b) Tro	ombay	c) Udayapur	d) Madras
	41 Pota	ato : Carrot : R	adish			
		a) Tomato	b) Gr	ound	c) Spinach	d) Sesame
DI	RECTIO	ON FOR Q. NO	). 42 to 45 :	Each of the fo	llowing question	as for alternative responses.
	42 Whi	ch of the follow	ving is the s	ame as flood,	fire, Cyclone?	
		a) Damage	b) Ea	rthquake	c) Rain	d) Accident
	43 Whi	ch of the follow	ving is the s	ame as Rabbit	, Rat, Mole?	
		a) Mongoose	b) Fro	og	c) Earthworm	d) Ant
	44 Whi	ch of the follow	ving is the s	ame as Measle	es, Rabies, Can	cer?
		a) Pneumoni	a b) Dia	abetes	c) Tetanus	d) Hepatitis
	45 Whi	ch of the follow	ving is the s	ame as Wrestl	ing, Karate, Box	ring?
		a) Swimming	b) Jud	do	c) Pole Vault	d) Polo
						ons, a sequence of group of letters ng term of the given alternatives.
	46 J2Z	, K4X, I7V,? H	116R, M22P			
		a) 111T	b) L11S	c) L12T	d) L11T	
	47 Q1F	F, S2E, U6D, V	V21C,?			
		a) Y66B	b) Y44B	c) Y88B	d) Z88B	
	48 In 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) 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	lled 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		ing to an man and". How is	_				aughter of the wife of my			
		a) Son	b) Husband	c) C	ousin	b) Brother-in-law				
53		ll told Anand " n did Rahul d	•	defeated	the only b	prother of the daugh	nter of my grand mother".			
		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 r 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	<u> </u>				
55	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-Eas	st b)	North-We	est	c) South-East	d) South-West			
56	Whic	h of the follow	ving sets is be	est repres	sented in	the adjoining diagra	am			
	<ul> <li>a) Animals, Insects, Cockroaches,</li> <li>b) Country, States, Districts</li> <li>c) Animals, Males, Females and Hermaphrodites</li> <li>d) State, Districts, Union Territory</li> </ul>									
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	h f c e g	) > Pair	nter				
57	Chine	ese who are p	ainters but n	M <mark>usi</mark> ciai ot musici						
		a) b	b) c	c) d	d) g					
58	Paint	ers who are n	either Chine	se nor mi	usicians					
		a) b	b)c	c) f	d) g					
59	Chine	ese who are n	nusicians but	not pain	ters					
		a) c	b) d	c) b	d) a					
60	Chine	ese who are p	ainters as we	ell as mu	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
- 62 Which combination of month & item is true for Jayanth
  - a) March Pastries'

b) February-Pastries

c) Bengali Sweets

c) February-Ice cream

d) None of these

- 63 What is the choice of Kamal
  - a) Ice cream

b) Bengali Sweets

c) Dry fruits

- d) None of these
- 64 In which month was Kamal born
  - a) January
- b) May
- c) January or May
- d) None of these

d) None of them

## 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 Cardilac
- b) Immediate left of Bedford
- c) Between Bedford and Fargo
- d) 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 Maruthi
- b) Maruthi & Fiat

c) Fiat & Mercedes

d) None of these

<ul> <li>68 Which of the following is true <ul> <li>a) Maruthi is immediate left of Ambassador</li> <li>b) Bedford is to immediate left of Fiat</li> <li>c) Bedford is at one of the ends.</li> <li>d) Fiat is to the second to the right of Maruthi</li> </ul> </li> <li>69 Which of the following group of car is to the right of Ambassador car? <ul> <li>a) Cardilac, Fargo &amp; Maruthi</li> <li>b) Maruthi, Bedford &amp; Fiat</li> <li>c) Mercedes, Cardilac &amp; Forgo</li> </ul> </li> </ul>								
70 36 vehicles are parke second car there are work out the number	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 f but also has 4 as a di a) 7 by			ach of wh	ich is not only ex	actly divisible by fo	our		
72 A number greater tha a) 5 by	an 3 but less that ) 6 c) 7		t is greate d) 9	er than 6 but less	than 10. The num	ber is		
73 In row of trees one tr a) 8 b)	ree is fifth from ) 9 c) 1		of the rovd)	w. How many tre	ee are there in a ro	w		
The effect on revenue a) Decrease by	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							
	75 A 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				
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	(	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.
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 elastic b) Elastic c) Inelastic d) None of the above.
84 A red hot steel bar is an example of
a) Mechanical Energy b) Vibrational Energy c) Kinetic Energy d) 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

91	me	a) Alpha rays c) Gama rays	·	b) Beta ra d) All of the	ays	are		
92	Whi	ch of the follow a) Hailey's	ring comets a b) Hon		er 76 years? c) Donati's	(	d) Alpha centua	ri .
93	The	angle in the ca a) 90 degrees		molecule is degrees	s approximate c) 105 de	-	d) 75	degrees
94	Aton	ns with the san a) Isotones	ne atomic nu b) Isob		different mass c)Isomer		ers are called d) Isotopes	
95	Whic	ch type of cell o a) Mitosis	division occu b) Mei		er cells? c) both a & b		d) Cell division	doesn't occur
96	The	sensation of f a) decrease in b) Minor wear c) Accumulati d) None of the	n supply of o and tear of on of lactic a	xygen muscle fibi		d stren	uous physical w	ork is caused by
97	Milk,	Meat and Egg	gs are good s	sources of				
		a) Fats	b) Carbohyo	drates	c) Proteir	ns	d) Vitamin	iS
98	Saffi	ron is dried a) Flower bud	ls b) Style	es	c) Stigmas		d) Perianth	
99	Anin	nal which uses a) Dog	sound as its b) Bat	"eyes" is c) cat	d) sr	nake		
100	The	computer spee a) Kilobyte	ed is measur b) Bite		c) Hertz	d) Me(	gabyte	
						$\leq$		