Set 1

SECTION A

1.	When we convert (4760) to the a) 2908	e base 10 to the base 12 the l b) 2818	number obtained is c) 3012		d) 2753	
2.	Find the greatest number which a) 210	h on being divided by 12, 21 b) 414	and 35 will leave in 6 c) 420	each case the same	remainder 6. d) 426	
3.	If x = b + c, y = c - a, z = a a) a + b + c	$a - b$, find $x^2 + y^2 + z^2 - 2xy - b$) $4b^2$	-2xz + 2yz. c) abc		d) $a^2 + b^2$	
4.	At an election where there are total number of votes recorded			% of the votes is ele b) 600 votes	ected by a majority o c) 300 votes	of 144 votes. Find the d) 699 votes
5.	A person borrows two equal suinterest on a certain date 6 m borrowed. a) Rs.850		will have to pay in e			
6.	The average salary of 50 work would be the new average sala		0. Five new workers	s with salaries 250,	300, 320 and 400 v	were employed. What
	a) 256.78	b) 988.65	c) 347.63	3	d) 543.87	
7.	The wages of laborers' in a factoriginal wage bill if the present		22 : 25 and there w b) Rs. 30		eir number in the ra c) Rs.5000	atio 15: 11. Find the d) Rs.6000
8.	A cask contains a mixture of to B, the proportion becomes A: I a) 36 gallons				drawn off and the ca	
0	, 3	, ,	, 3		, -	
9.	A trader allows a discount of 5 make a clear profit of 25 percer a) Rs. 1000		c) Rs. 1200	mark on an article t	d) Rs. 1123	ch is Rs. 800 so as to
10.	A cheetah chases a deer which deer covers 1 m while the chee a) 300					eaps. In one leap, the
11.	Find the least number which on a) 210	n being divided by 12, 21 and b) 414	35 will leave in each c) 420	n case the same rem	ainder 6. d) 426	
12.	A certain number of people agr number of subscribers. a) 1607		ees each as there are c) 1503	e subscribers. The w d) 1603	hole subscription is F	Rs. 2582449. Find the
13.	In an election where there were 8772 votes .What percentage o a) 57%		-		•	t candidate received
14.	Find the effective annual rate of a) 5%	corresponding to a nominal ra b) 6.09%	te of 6 percent per a c) 6.9%	nnum ,payable half	yearly. d) 7.2%	
15.	Rs.3783 is divided into two part months at 2.25%. Find the sum		st on the first for thr b) Rs.174		is equal to that on th c) Rs.1982	ne second for 7 d) 2563
16.	Find two natural numbers, one a) 5,9	of which is $3/5^{th}$ of the other b) 5,3	and such that the d c) 10,6	ifference of their squ	uares is equal to 16. d) 1,4	
17.	On an average my income for 1 was the income on the sixth da		first five days was R b) Rs.2	ds. 6 and the average	e for the last nine da c) Rs.3	ys was Rs. 8. What d) Rs.5

18.	The wages of labourers in a wage bill if the present bill is		22:25 and there wa b) Rs.3000	s a reduction in their c) Rs.5000	number in the ratio 15:11. Find the original d) Rs.6000
19.		water. The jars are emptied		and the remaining vo	5% of the mixture is alcohol and in the blume is filled up with water. Find the % of e of these
20.	A camera costing Rs. 550 is taken off the marked price ?		-	t of 30%.What will be c) Rs. 635	its selling price in a sale when 20% is d) Rs. 605
			SECTION B		
	rections for Questions 21 t	o 30: Each Question is follow	ved by two statemer	nts, I and II. Answer e	each question using the following
Cho Cho Cho	cose A : if the question can becose B : if the question can becose C : if the question can becomes	e answered by using on eithe e answered by using both the	r of the statements statements togethe	alone. er, but cannot be answ	swered using the other statement alone. vered using either of the statements alone.
Cho	oose D : If the question cannot	ot be answered even by using	both the statement	s together.	
21.		ent cars is 1:1.5. What would f discounts on the two cars is			15% and 18% are given on both the cars
	a) A	b) B	c) C	ount on the second ca	d) D
22.	Find the units in (6ab) ⁶⁴ who a) A	ere a and b are the tens and u b) B	units digits of the nu c) C	ımber. I. a*b=24 II. b	> 4 d) D
23.	Is the average cost of 60 ite a) A	ms greater than Rs.25? I. Tw b) B	o-fifth of them cost c) C	Rs.30 each. II. One-th	nird of them cost Rs.40 each. d) D
24.		ulation of a village comprises			
	I. 4/7 of the population coma) A	prises females. b) B	II. There are 30(c) C	0 unmarried males.	d) D
25		in 2 I. It takes 40 seconds to r	2000 a bridge 1200 r	n lang II It takas 0 s	econds to pass a telegraph pole.
23.	a) A	b) B	c) C	11 1011g. 11. 11 takes 0 s	d) D
26.	Is the product of two given	consecutive natural numbers	greater than 92?		
	I. The difference between the	e square of the larger numbe	er and the larger nur		aliana kha masuk C F
	a) A	umbers, when added by a squ b) B	ared even integer a c) C	na then divided by 2,	d) D
27	Is $y/x (1+x)^2 >= 2y$? I. $xy >$	0 II. x+y			
۷,	a) A	b) B	c) C		d) D
28.	I. The solution when burnt p	n one litre of solution more the	it.		f the same solution?
	a) A	nass 250 gm, are required to b) B	c) C	solution.	d) D
29.	Three dice A,B and C are the I. Dice A shows 4 more than	rown together. What is the su dice C.	m of all readings of	the dice?	
	II. If we multiply the reading a) A	g of dice B with that of dice C _i b) B	, we get the reading c) C	of dice A.	d) D
30.		to fill a leaking tank of volume	•		4, 5
				ken if all the water is a	allowed to leak with no water being poured
	II. The leak rate is halved if		c) C		d) D
	a) A	b) B	c) C		d) D

SECTION C

Directions for O31 to O35: For each of the words below, a contextual usage is provided. Check the word from the alternatives given that is most INAPPROPRIATE in the given context.

31. CULPABILITY: The culpability of one, who unknowingly sins, has different connotations in these eastern religions.

a) accountability

b) laudatory

c) praiseworthiness

d) usefulness

32. PERSPICUOUS: A perspicuous argument is far more effective than mere rhetoric when it comes to achieving a solution.

a) synthetic

b) lucid

c) ineffective

d) obscure

33. ATROPHY: The brain, like an unused limb, will atrophy if not exercised enough.

a) thrive

b) deteriorate

c) succeed

d) regenerate

34. VAPIDITY: The vapidity of the hostess's conversation ensured that the evening was a failure.

a) provocativeness

b) liveliness

c) agitation

d) interesting

35. PEREMPTORY: Beauty that has lost all modesty becomes peremptory and vain.

a) submissive

b) illusive

c) democratic

d) permanent

Directions for O36 to O40: Each of the questions consists of two capitalized words which have a certain relationship to each other, followed by 4 pairs of words. Choose the pair that is related to each other in the same way as the capitalized paper.

36. CONFESS: DENY a) Royal: Regal

b) Speak: Hear

c) Release: Imprison

d) Loud: Audible

37. FAIR: FARE a) Smart: Pretty

b) Bushel: Corn

c) Hair: Hare

d) Moral: Amoral

38. EYE: LIGHT a) Hear: See

b) Brain: Idea

c) Hand: Fist

d) Ear: Sound

39. GALLEY: SHIP a) Mall: Market

b) Kitchen: House

c) Banquet : Feast

d) Restaurant: Hotel

40. LETHARGIC: STIMULATE a) Skeptical: Convince b) Bored: Disinterested

c) Unwilling: Willing

d) Erudite: Teach

SECTION D

41. An electrical circuit wiring a set of four lights depends on a system of switches A,B,C & D. Each switch when working has the following effects on the lights:

Switch A turns light 1 & 2 on/off or on/off

Switch B turns light 2 & 4 on/off or on/off

Switch C turns light 1 & 3 on/off or on/off

Switch D turns light 3 & 4 on/off or on/off



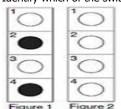
= ON



= OFF

In the following, switches B C A D are thrown in turn, with the result that figure 1 is transformed into figure 2. One of the switches in therefore not working and has no effect on numbered lights.

Identify which of the switches is not working



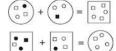
(a) Switch A

(b) Switch B

(c) Switch C

(d) Switch D

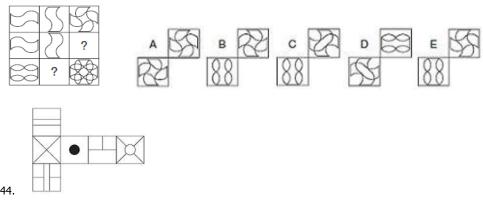
42. Which circle below should replace the question mark?



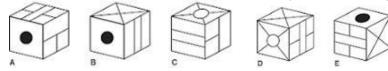




43. Which two squares are missing?

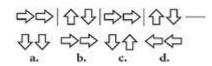


When the above is folded to form a cube, which is the only one of the following that can be produced?

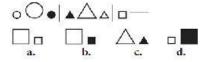


The below questions use series of Non – Verbal, non – number symbols. Look carefully at sequence of symbols (first line) to find the pattern and fill in the blank from the options (a), (b), (c), (d)

45.



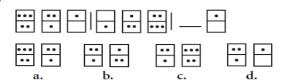
46.



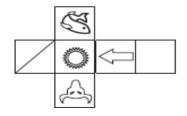
47.

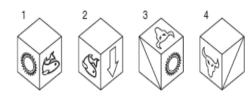
48.

49.



50. In this test you have to imagine how a design would look when it is folded up to make a cube (or box). In each case you are given a plan of an unfolded cube and your job is to fold it together 'in your mind'.





SET 2

SECTION A

<u>Directions for Q1 to Q5:</u> The following table gives changes in the market shares of five brands over a five year period. (figures in %)

	1996	1997	1998	1999	2000
Α	33	32	28	31	35
В	6	8	9	11	13
С	27	29	32	28	22
D	19	19	18	20	21
E	15	12	13	10	9

Rules:

- a) If the market share increases for 3 years in a row, the brand is called a strengthening brand .
- b) If the market share remains above 30% for three years out of a total 5 years, then it is a consistent brand
- c) If the market share is falling for 3 years in a row, the brand is called a 'weakening' brand.
- d) If the market share drops for 2 years in a row and then rises for two years in a row it is a 're launched' brand.
- e) If the market share varies by 3 points or less over the past year for 5 years in a row then it is a 'maverick' brand.
- f) If in any year, just two brands account for at least 60% of total market share ,then that year is a 'consolidation year'.
- g) If in any year 80% of the total market share is accounted for by three brands then that year is a 'year of competition'.

1.	a) A	s are 'strengthening' brands? b) B	c) C & A	d) B & D
2.	Which of the following are that a) A	e 'weakening' brands? b) B	c) C	d) None of the abov
3.	Which of the following are 'co a) A	onsistent' brands? b) B	c) C	d) D & C
4.	Which of the following is/are a) 1996	the year/s of 'competition'? b) 1996 & 1999	c) 1998 & 2000	d) 1997
5.	Which of the following is/are a) 1996 & 1999	the 'consolidation' year/s? b) 1997 & 1999	c) 1996, 97, 98	d) 1996 , 1997

Directions for Q6 to Q10:

U.P. and Bihar are the most deprived states of India. While they contain one fifth of India's population, they have almost one-third of India's illiterates. In 1998 only a small fraction of U.P and Bihar's population was literate versus 85% of Kerala.

More than two thirds of the births are not attended by any medical facility.1/10th of the infants born in UP and Bihar die in infancy and equal number before reaching the age of five. Almost 90% of the under five deaths are due to malnutrition.

The lucky kids who have survived for the first five years, $1/3^{rd}$ of them work as child labourers and only half of the remaining are sent to school. Of those who attend classes, only 40% are able to reach standard 5. In India 30% of the children under 16 work as labourers. UP and Bihar contain $1/3^{rd}$ of the child labourers in India .India has the largest population of child labourers which is $1/15^{th}$ of its total population.

In UP an	d Bihar out of 100 children enro	olled, 32 are girls. And out of	100 who a	ttend stand	dard 10 only 10	are girls. Only 38 o	out of 100 Indian women
	te versus 57% of the males. Even of the country was 90M in 19					seven times more th	nan boys do. Total
6.	What percentage of infants in	UP and Bihar attend std. V?	a) 15	b) 11	c) 20	d) 23	
7.	The number of child labourers	s in India are: a) 15Million	b) 16Mill	lion	c) 12Million	d) 6Million	
8.	In UP and Bihar out 100 born a)27	, how many children work as b)30	child labou c)54	irers?		d)35	
9.	What % of girl child enrolled	n school reach standard 10 in	n UP and Bi	ihar? a)10%	% b)32% c)60	0% d)Data insuf	ficient.
10.	The literate in Kerala exceed	the literate in UP and Bihar by	y a)30%	b)35%	c)27%		
			SECTIO	<u>N B</u>			
11.	A certain number of people an number of subscribers. a) 160		pees each b) 12912		e subscribers. ⁻ c) 1		tion is Rs.2582449. Find the d) 1603
12.	Find the number whose squara) 225.9	e is equal to the difference b b) 67.635	etween the c) 45.09		f 75.15 and 60.	12. d) 15.03	
13.	A man lost 12.5% of his mone a) 700	ey and after spending 70% or b) 350	f the remai c) 800	nder, has F	Rs. 210 left. Hov	w much did the ma d) 500	n have initially?
14.	A man derives his income fro for 4 years is Rs. 1211. Find t			ain rate of b) 4.75,		and Rs. 3500 at 10 c) 3, 3	% higher. His whole income d) 2.5, 4
15.	Two partners invested Rs. 1 remaining as the interest on t a) 3500						50% of the profit, and the
16.	A sum of money was distributed rupee more. But if there were a) Rs.120			eived Rs. 2			
17.	On an average my income for What was the income on the		or the first	five days a b)Rs.2	nd was Rs. 6 a	nd the average for c)Rs.3	the last nine days was Rs.8. d)Rs.5
18.	The wages of labourers in a original wage bill if the preser			nd there w b)Rs.300		in their number in c)Rs.5000	n the ratio 15:11 . Find the d)Rs.6000
19.	Two jars of capacity 3 and 5 larger 25% of the mixture is percentage of alcohol in the c	water. The jars are emption			and the remain		
20.	Three bachelors, Amar, Akba Anthony stayed for the entire		Rs.6000, f	ind the sha		months , Akbar sta	ayed for 8 months and only
	a)Rs.4000	D)RS.2000	c)Rs.300			u)ks.2500	
			SECTIO				
	ns for Q21 to Q25: Each of the vords. Choose the pair that is N						ch other, followed by 4
21.	DIVESTMENT:DISHABILLE a) Quiescence : Tranquility	b) Expostulate : P	rofiteer	c) Peram	bulation : Cradl	le d)	Sapient : Asinine
22.	PENCHANT : REPUGNANCE a) Confute : Refute	b) Dogmatism : R	ationality	c) Neoph	yte : Epiphyte	d)	Incertitude : Certainty

23.	PARENT : OFFSPRING a) Mother : Son	b) Sororal : Fra	iternal c) Fathei	r · Son	d) Paternal : Daughterly			
	a) Moulei . Soil	b) 30101a1 . 116	iterriai c) i atriei	. 3011	u) Faterilar . Daugnterry			
24.	MAGNIFICENT : NICE a) Macabre : Unpleasant	b) Dying : Unw	rell c) Malad	roitness: Indexterity	d) Pernicious : Bad			
		5, 5, mg 1 6mm	cii cy i iaiaa	Toldiess Tindexectly	a) i cirilicious i buu			
25.	KERNEL : SHELL a) Caterpillar : Pupa	b) Larva : Coco	oon c) Lassitı	ude : Syncope	d) Passenger : Car			
		,	•	, .	, ,			
	irections for Q26 to Q30: For each of the words below, a contextual usage is provided. Check the word from the alternatives given that is most PPROPRIATE in the given context.							
26.	AUTHOCHTHONOUS: The Dra a) original	avidians were the authocht b) majority	honous population of Inc c) indige	dia before the arrival of the Ary enous	vans. d) important			
27.	MORIBUND: By the fourth cer	ntury AD, the Roman civiliz	ation was already morib	ound.				
	a) extinct	b) forgotten	c) flouris	shing	d) stagnant			
28.	EGREGIOUS: A generation agphase all adolescents go through		rate such egregious beha	avior, but nowadays they just s	mile and say that it's just a			
	a) indolent	b) impertinent	c) unwor	nted	d) outrageous			
29.	GEILD: It is hard to believe the	nat any life could ever arise	e in the gelid environmer	nt of Titan.				
	a) frigid	b) suffocating	c) gelatir	nous	d) hostile			
30.	GNOME: I like the style of this a) dwarf	s book – every chapter sta b) question	rts with a gnome. c) aphori	ism	d) logo			
Conside	r the following letter series	:: A B C D E K J I H G F L I	MNOPQWVUTSR)	X Y Z.				
21	If the letter series above was	written in reverse order w	which of the following let	tter would come 12 th from the	right?			
31.	(a) O	(b) L	(c) M	tel Would Come 12 th from the	(d) N			
32.				ad of 26, obtained by removing				
	(a) L	(b) N	(c) Q		(d) W			
33.	Pointing to a woman in a pho to the man?	tograph a man says. She i	s the mother-in-law of th	he wife of the father of my old	son. How is the woman related			
	(a) daughter	(b) wife	(c) daug	hter-in-law	(d) None of these			
34.	Rumi starts from her house a	nd moves 200m towards r	orth. Then she turns left	t and moves further 200m. Had	she gone directly to the place			
	where she is now, she, would		-	(d) Conn	at Cav			
	(a) (400-200x1.5)m	(b) (400-200x2)m	(c) 200(v2-1)m	(d) Cann	ot Say			
35.	Which of the following choice (a) GQU	s would come in place of t (b) FRU	he following of the quest (c) FQR	tion mark to complete the serie	s AKL BMN DNO EPQ? (d) GRV			
36.	Four of the following are alike	e in a certain way and hen	ce form a group. Which o	of these does not belong to the	group?			
	(a) DAE	(b) AXB	(c) JGK		(d) MNO			
	TC				Miles College			
37.	mango leaf? (a) Blue	is called violet, violet is call (b) r		low and yellow is called scarlet. (c) Yellow	(d) None of these			
38.	• • • • • • • • • • • • • • • • • • • •	()		ber is always coded as B then w				
	divisible by 3, most certainly?		(b) AAA	(c) BBAA	(d) AAAAAB			
39.	If in a certain code COVET is	written as FRYHW, which	• •	s SHDUO?				
40	(a) QUAKE	(b) REPAY	(c) VKGX		(d) PEARL			
40.	If REASON is coded as 5 and (a) 6	(b) 8	e code number for GOVE (c) 9	EKINMENT!	(d) 10			

	le whether the data giv a. If only state b. If both state c. If either state		wer the question. answer the question.	the question as I and II. You have
41.	•	ages of A,B,C and D is 96 years. V of A,B and D is 29 years.	What is B's present age? II. The average age of	f C and D is 20 years.
	What is the average age Age of the teacher is as n	e of children in a class? nany years as the number of the c	hildren. II. Average age increases by 1 if t	he teacher's age is also added.
43.		d is 1600 m ² . What is its perimete		
	I. It is a perfect sq	uare playground. II. It c	ost Rs. 3200 to fence around the playground a	at the rate of Rs. 20 per meter.
44.	What is the weight of th	e iron beam? I. The beam is 9 m	long, 40 cm wide and 20 cm high. II. Iron w	eighs 50 kg per cubic meter.
45.	What is the height of a of I. The area of the of	circular cone? cone is equal to the area of rectan	gle whose length is 33 cm. II. The area of	the base of that cone is 154 cm ² .
question	How many marks did Ta I. The average marks se II. The total marks secu	and decide which of the staten	natics is 170.	
47.	temperature on Thursda I. The temperature on T	y? hursday was 4/5 that of Monday.	degree centigrade and Tuesday to Thursday of II. The mean temperature of Monday to Thursday was 9 degree centigrade. (c) II & III only	
48.	What is the length of the I. The perimeter of the III. The length is 140% (a) All I, II, & III		II. The difference between the	e length and breadth is 7 cm. (d) Either I & III.
49.	What is the capacity of t I. The area of the base i III. The circumference of (a) All I, II, & III	s 61,600 cm².	II. He height of the tank is	1.5 times the radius. (d) Either I & III.
50.	In how many days can t I. A alone can complete III. B alone can complet (a) All I, II, & III		ogether? alone works for 5 days and B alone works for (c) Any two of the three	6 days the work gets completed. (d) Either I & III.