MATHS, ENGLISH, GENERAL SCIENCE, SOCIAL STUDIES AND INTELLIGENCE

CLASS - IX

0030195

Time: 3 Hrs Max. Marks: 400

Name in Full Roll No.

INSTRUCTIONS

- 1. This question paper contains FIVE sections and you have to answer all questions in the OMR answer sheet. Section "A" Mathematics contains 50 questions of 4 marks each. Section "B" English, Section "C" General Science, Section "D" Social Studies, and Section "E" Intelligence contain 25 questions each with 2 marks per question.
- 2. There is only one correct answer for each question. Darken only one bubble for each question. If you darken more than one bubble, your answer will be treated as wrong.
- 3. Evaluation of OMR answer sheet will be done on a computer. Ensure no unnecessary markings are made on the OMR answer sheet. Do not fold or attempt to deface the OMR answer sheet. OMR sheets with multiple folds or defaced OMR sheet will not be evaluated.
- 4. Rough work must be done on the additional two sheets only and NOT on the OMR answer sheet.
- 5. Write your answer in Blue/Black ink only. Do not use pencil.
- 6. There are total 28 pages in the question paper including two pages for the rough work

 3.6×10^2

(d)

SECTION-A MATHEMATICS

(b)

(d)

Find the least square number divisible by each one of 8, 9 and 10:-

36

(b)

1.

(c)

(a)

16, 24 and 32

14, 21 and 28

360

Three numbers are in the ratio 2:3:4. The sum of their cubes is 33957. The numbers are

(c)

12, 18 and 24

18, 27 and 36

3600

3.	If 14	8101 <i>a</i> 095 is	a multin	ole of 11	where	a is a	digit t	he valu	e of a i	9
4.	(a)	0 he value of A a	(b)		(c) A		uigit, t	(d)	2	3
				5 7	A	0		0		
	(a)	A = 5 and B	= 2			(b)	A = 5	and B	= 5	
	(c)	A = 2 and B	= 2	0		(d)	A = 2	and B	= 5	
5.	Find t	he value of Z f	or which	the num	iber 47	1Z8 is	divisibl	e by 9.		
	(a)	4	(b)	5		(c)	7		(d)	8
6.	If the (a)	area of an equi $18\sqrt{3}$ cm				cm ² , th			the triar $3\sqrt{2}$ cr	The state of the s
7.	The v	alue of $\frac{4 m^2 - 2}{2}$ $(2 m - a + b)$	$\frac{a^2 + 2a}{m + a}$	$\frac{b-b^2}{b}$ i	s (b)	(2 m -	(a-b)			
((c)	(2m+a+b)		7	(d)	(2 m +	a-b			
8.		ntio between the , the speed of tr			rains A	and B	is 3:5	. If trai	n B run	s 300km in 4
	(a)	40 km/h	(b)	60km/h		(c)	30 km	/h	(d)	45 km/h

9.	Two years ago, Dilip was three times as old as his son and two years hence, twice his age will be equal to five times that of his son. The present age of son and Dilip are								
	(a)	14, 38 years	(b)	16, 40 years	(c)	12, 36 years	(d)	None	
10.	The	probability of ge	etting a	7 in a single th	row of	a dice is:			
	(a)			0 (c)					4
11.	A's i	ncome is 60% r	nore th	an that of B. By	what p	percent is B's in	come l	ess than A's ?	
	(a)	37%	(b)	37.5%	(c)	36.5%	(d)	36%	
12.	Вујс	oining (-3, 2), (-	-3, -3)	and (-3, 4), wh	ich of t	he following is	obtaine	ed?	
	(a)	A triangle							
	(b)	A straight lin	e paral	lel to x- axis					
	(c)	A straight lin	e paral	lel to y- axis					
	(d)	A straight lin	e passi	ng through orig	in				
13.	The 1	number of times	a parti	cular observation	on occu	rs in a given da	ta is ca	lled its	
	(a)	Frequency		Range	(c)	Mean (d)		of these	
14.	By se	elling 33 m of cl Find his gain o	oth, a c	draper loses an a	amount	equal to the sel	ling pr	ice of 3 m of	
	(a)	gain $8\frac{1}{3}$ %	(b)	$loss 8\frac{1}{3}\%$	(c)	gain 7%	(d)	loss 7%	
15.	Three cubes of metal whose edges are 6 cm, 8 cm and 10cm respectively are melted to								
		a single cube. T							
	(a)	24 cm (b)	20 cm	n (c) 18 em	(d)	12 cm			
16.	Find the single discount equivalent to two successive discounts of 20% and 10%								
	(a)	25%	(b)	30%	(c)	28%	(d)	10%	
17.	Whic	ch of the followi	ng is n	ot a case of dire	ct varia	ntion?			
X	(a)	Number of sl	eets of	some kind are	increase	ed when their to	otal wei	ight is increase	ed
	(b)	More quantity	y of pet	rol is required t	o trave	l more distance	with a	fixed speed	
1	(c)	More fees wo	ould be	collected if nun	nber of	students increa	se in a	class	
	(d)	Time taken w	ill be l	ess, if number o	f work	ers is increased	to com	plete the same	3

work.

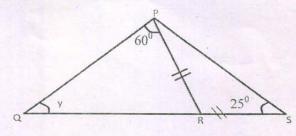
18. If $a+b+c=9$ and $ab+bc+ca=23$, then the value of $a^2+b^2+c^2$ equals to								uals to		
	(a)	35	(b)	81	(c)	127	(d)	217		
19.		viding 200 int of the parts is		erts, $\frac{1}{3}$ o	f the fir	st part a	and $\frac{1}{2}$ o	f the sec	ond par	t are equal. The
	(a)	80	(b)	120	(c)	40	(d)	150		CO
20.	On se	lling a fan for	Rs 810,	Sunil g	ains 8%	6. For ho	ow muc	h did he	purcha	se it?
	(a)	Rs 700	(b)	Rs 67	75	(c)	Rs 65	50	(d)	Rs 750
21.	Find t	he value of	$x: 3^{2x} \times 3$	x+3 x 3 ⁴	$-x = (\sqrt{3}$)10		10		
	(a)	-1	(b)	0		(c)	1	11.	(d)	2
22.	$\sqrt[3]{\frac{(-a^4)^2}{\sqrt{a^4}}}$	$\frac{^{6}X b^{3}X c^{21})}{c^{9}X a^{12}} =$		103		.(0		
	(a)	$\frac{-bc^3}{a^2}$	(b) $\frac{bc}{a}$	2 2	egia c	$(c)\frac{-a}{c}$	b ⁴ ₂		(d)	$\frac{-bc^4}{a^2}$
23.	If n is	a perfect cub	e, then e	very pr	ime fac	tor of 'n	occur	S		
	(a)	One time	(b) T	wo time	es	(c) T	hree tin	nes		(d) Four times
24.	Find	the greatest nu	umber of	four di	gits wh	ich is a	perfect	square.		
	(a)	9800	(b)	9864	like y	(c)	9999		(d)	9801
25.		e ratio of the wing can be th							7 : 6, th	nen which of the
	(a) 82	2	(b) 9	7		(c) 7:	5		(d)	94
26.	and the	he mother is e	equal to to will be	he age four-thi	of the fird of hi	ather. A	fter 15	years, th	he sum	e ages of the son of the ages of the f the present ages
	(a) 1:	5:7	(b) 2	:10:10		(c) 1	:5:6		(d)	2:8:9

FRONT
7
(0)
×
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120
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1

		3		Class IX SET C
27.		ome of P and Q is 5: 4 and of Q by $16\frac{2}{3}\%$. When		liture is 4 : 3. The saving does P spend?
	(a) $53\frac{2}{3}\%$	(b) $53\frac{1}{3}\%$	(c) $54\frac{1}{3}\%$	(d) $51\frac{2}{3}\%$
28.		sum of Rs. 12,500 at 1 5,680 after x year. The		pound interest. He received
	(a) 1 (b) 4	(c) 3	(d))2
29.	Find the compound quarterly.	l interest on Rs 1, 25,0	00 for 9 months at 8	% per annum, compounded
	(a) 7551	(b) 7651	(c) 7650	(d) 7655
30.		M and after some time		ank in 18 hours. Both pipes and tank is full at 8 PM. At
	(a) 10 AM	(b) 8 AM	(c) 9 AM	(d) 11 AM
31.		uns at a constant speed travel the same distan		kmph more, it would have f the car.
	(a) 60 kmph	(b) 50 kmph	(c) 40 kmph	(d) 75 kmph
32,	respectively. If the	avelling in opposite a length of one train is by the trains to cross	300 m and that of th	of 25 m/s and 30 m/s the other train is 250 m, then
	(a) 8 s	(b) 10s	(c) 12 s	(d) 14s
33.		its of a two digit number.	per is 9. If 27 is subtr	acted from the number then
	(a) 81	(b) 72	(c) 36	(d) 63
34.	of these vehicles i		f four-wheelers is 3/	The total number of wheels 2 times the number of six-
	(a) 20	(b) 5	(c) 15 (d) 10

35.	What is the minimum	n interio	or angle possibl	e for a r	egular polygor	1?	
	(a) 60°	(b)	75 ⁰	(c)	90°	(d)	None
36.	What is the number	of diago	nals in a hexag	on?			
	(a) 4	(b)	6	(c)	9	(d)	10
37.	In the adjacent figure $<$ D = 60° find the me	re, the beasure o	oisectors of <a f <apb.< td=""><td>and <</td><td>3 meet at a po</td><td>int P. If</td><td>$<$C = 100^0 and</td></apb.<></a 	and <	3 meet at a po	int P. If	$<$ C = 100^0 and
	(a) 60^0 (b) 7	70 ⁰	(c) 90^{0}	. (d)	80 ⁰	A	B
38.	A square and a recta the two figures is 9n	ngle each	ch have a perin are the possible	neter of e dimer	40 m. The diffusions of the re-	erence l	between areas of
	(a) 13m, 7m	(b)	14m, 6m	(c)	108m, 1m	(d)	15m ,5m
39.	In a parallelogram A distance between			= 5cm	and AC = 7cm	. Find tl	ne perpendicular
	(a) $6\sqrt{6}cm$	(b) 12	√6cm	(c) 5ci	n	(d)2 √	6cm
40.	Some cubic metres of radius of 3.5 m. If the of dimensions 25 m.	nat amo	unt of earth wh	ien take	n out is spread	over a	rectangular plot
	(a) 1.54 m	(b)	1.50 m	(c)	1.52 m	(d)	1.53 m
41.	What is the differe cylinder whose radiu			surface	e area and cu	rved su	rface area of a
	(a) $200\pi \text{ cm}^2$	(b) 30	$0\pi \text{ cm}^2$	(c)	100π cm ²	(d)	$10\pi \text{ cm}^2$
42.	The mean of six nu would be		s 15. If 2 is ta	ken awa	ny from every	number	the new mean
	(a) 13	(b)	4	(c)	17	(d)	8
43.	The sides of the trian side from its opposit			nd 75 cm	n. Find the leng	gth drav	vn to the longest
	(a) 27 cm	(b) 21	cm	(c) 39	cm	(d) 36	cm .

In the following figure, find the value of Y



- 50^{0} (a)
- 65^{0} (b)
- 60° (c)
- 70^{0} (d)
- A cylindrical tank has a capacity of 5632 m³. If the diameter of its base is 16m, find its depth.
 - (a) 28 m (b) 25 m
- 16 m
- 29·m

46. The value of
$$\left(-\frac{3}{2} \times \frac{4}{5}\right) + \left(\frac{9}{5} \times \frac{-10}{3}\right) - \left(\frac{1}{2} \times \frac{3}{4}\right)$$
?

- 47. The abscissa of a point is its distance from the
 - Origin
- X-Axis
- (c) Y-Axis
- None

48. What is the value of
$$m$$
, if $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2m-1}$

- (d) m = 2
- "If a number when divided by 4 leaves remainder 2 or 3", then which one is the correct-49. statement?
 - (a) The number is not a perfect square
 - (b) The number is a perfect square
 - (c) The number is a prime number
 - (d) None of these

50.	The value of	$\sqrt{0.2304} + \sqrt{0.1764}$				
	The value of	$\sqrt{0.2304} - \sqrt{0.1764}$				

15 (a)

(b)

16 (c) 5

(d) 150

SECTION - B ENGLISH

51.		sest in meaning to		0.
	(a) Recurrent	(b) Trivial	(c) Fatal	(d) Eternal
52.		h the correct spellir		O
	(a) iviaintenance	(b) Maintennan	ce (c) Maintanance	(d) Maintainance
53.	The coach insisted short for that positi	that Ronaldoion. (Use the correc	the centre position, everb)	ven though he's too
	(a) play	(b) played	(c) plays	(d) none of these
54.	King of Sc the cave. (Use Arti	otland saw	spider trying to climb up to	ceiling of
	ine cave. (OSC 71111	cics)		
	(a) The, a, the	(b) A, a, the	(c) No article, a, no article	(d) The, a, no article
55.	Raju relishes not o	nly Chinese	continental food. (Use ap	ppropriate Conjunction)
	(a) also	(b) but	(c) but also	(d) rather
56.	You must learn	English every day	to improve it. (Use appropri	iate determiner)
	(a) a few	(b) a little	(c) a lot of	(d) none of these
57.	Arrange the jumble	ed words to form a	meaningful sentence	
	most/inventor/wor	rld/Thomas/Alva/I	Edison/the/in/is/remarkab	le/the
13	(a) The remarkable	inventor in the mo	st world is Thomas Alva Ed	lison.
	(b) I nomas Alva E	colson is the most re	emarkable inventor in the w	orld.
			the world Thomas Alva Ed ntor is Thomas Alva Edisor	
	() In the mond in	or remarkable mye	ittor is riivilida Arva Etiisti	1.

Read the following passages and answer the questions that follow:

The moon's role in causing tides is much more high and important than that of the Sun. The reason is that the moon enjoys more proximity to the earth than the sun. As such its force is greater than that of the sun in attracting the surface water. Tides are of immense importance. In trade, navigation and fishing, tides are very useful. During the high tide, the water depth near the coast goes up and helps big ships to reach the ports. Kandla port in Gujarat and Diamond Harbour in West Bengal owe their very existence to the tides only. The significance of both London and Kolkata also depends on the tides. Tides also keep the harbours clear of refuse and mud brought down by rivers and thus they do not allow the harbours to be silted. Commonly, the tidal rivers are navigable. For the purpose of generating electricity, tidal waves are harnessed. Tides do not allow the sea water to be frozen by keeping the sea water in motion. Tides are also made use by the fishermen for sailing into the sea and returning to the harbour. In countries like Canada, U.K., France and Japan, tidal power stations are set up.

- 58. Why does the moon play a greater role than the sun in causing tides?
 - (a) The moon is closer to the earth as compared to the sun.
 - (b) The moon has greater gravitational pull.
 - (c) The moon shines in night.
 - (d) None of the above.
- 59. How are tides useful for the economy of the country?
 - (a) Tides bring treasure of sea with them.
 - (b) During high tides, big ships can reach the ports thus opening new vistas for business.
 - (c) Tides destroy enemies of the country.
 - (d) None of the above.
- 60. How are tides useful in cold countries?
 - (a) They bring fish for eating.
 - (b) They bring water for drinking.
 - (c) They don't allow sea water to be frozen.
 - (d) They keep the port silted.
- 61. How can tides solve the power problem of the world?
 - (a) Electricity is being produced through tidal waves.
 - (b) Tidal waves keep the steamers in motion.
 - (c)Tidal waves melt the ice and save power.
 - (d) None of the above.
- 62. Which word in the passage means 'to bring under control'?
 - (a) Proximity
- (b) Silted
- (c) Immense
- (d) Harness

63.	She plays better than do. (Choose appropriate prono (a) I (b) my (c) may	un) (d) myself							
64.	in a school in Delhi since 2017. (Choose appropria (a) has studied (b) has been studying (c) have been studying	te form of tense) lying (d) will study							
65.	 There isn't any smog in the Highlands of Scotland,? (Ch tag) 	oose appropriate question							
	(a) aren't it (b) isn't it (c) is there	(d) there isn't							
66.	6. Choose the best meaning of the Idiom "to play to the gallery"								
	(a) to watch the play with interest (b) to enact the pla (c) to endeavour to gain cheap popularity (d) to sit comfortable								
67.	7. The speckled tortoise walks steadfastly towards his goal? (Choo (a) speckled (b) steadfastly (c) towards	ose the adverb) (d) goal							
68.	3. I wrote an article for the school magazine. (Change from active	to passive voice)							
	 (a) An article for the school magazine I had written. (b) An article was written by me for the school magazine. (c) I have written an article for the school magazine. (d) The school magazine and an article I wrote for. 								
69.). Empty vessels much noise. (Select the correct form	of verb)							
	() 1	(d) makes							
70.	Gullible (Choose the word with opposite meaning)								
		(d) resourceful							
71.	Candidates must the general conditions for admit (a) do (b) prepare (c) satisfy	ssion. (d) create							
72.	2. He resorts sharp practice in his dealings.								
	(a) at (b) to (c) in	(d) for							
73.	English is an international language. (a) No article required (b) The (c) A (d) An								
74.	The word 'Industrious' means.								
	(a) Working in industry (b) Labour in factory (c) Hard working (d) Laid back								

13.	Choose the correct order to make the sentence below meaningful:-								
	Wear	r/these/j	people/almos	t/a/majority/	of/davs/a	watch			
	1	2	3 4	5 6	7 8	9			
	(a)		731928	(b)		7613829			
	(c)	456	792318	(d)	456	5731289			
				SECT	TON C			C	ĭ
				GENERA	<u>ION- C</u> L SCIEN	ICE		0.	
76.	The b	oy is pu	lling a cart by	a force of 10	00N. The	frictional fo	rce experie	enced by the	cart
	is 20	N. The f	force causing	the motion of	the cart	is :-	50		
	(a)	100 N	(b)	120 N	(c)	80 N	(d)	5 N	
77.	The c	ans used	d for storing f	ood are made	by electr	oplating:-			
	(a) Si	lver onto	o iron (b) Chr	omium onto	ron (c) (Gold onto iro	on (d) Tin o	onto iron	
78.	The i	mpressio	on of an imag	e does not va	nish imm	ediately fror	n the retina	ı. It persists	for :-
	(a)	(1/60)	th of a second of a second	(b)	(1/1:	2) th of a seco	ond		
	(c)	$(1/6)^{th}$	of a second	(d)	(1/10	6) th of a seco	ond		
79.	The S	Sun appe	ears to rise in	the East and s	et in the	West becaus	e:-		
	(a)		rotates from I						
	(b)		rotates from V			3.			
	(c) (d)		un is at the ce of these.	ntre or unive	rse.				
00									
80.	Press	ure is eq	ual to						
: 3			ce on which it			rea on which			
1	(c) V	olume /	force on whic	th it acts (d)	Force / v	olume on wh	nich it acts		

(b) Higher than 10,000 Hz (d) Lower than 10,000 Hz

An ultrasound equipment works at a frequency

(a) Higher than 20,000 Hz (c) Lower than 20,000 Hz

82.	When electrodes are immersed in water and electricity is passed, the bubbles formed on the negative terminal is actually gas.							
	(a) Hydrogen (b) Carbon dioxide (c) Oxygen (d) Nitrogen							
83.	If light falls perpendicularly on a plane mirror, the angle in which light will be reflected is							
	(a) 45 degrees (b) 90 degrees (c) 180 degrees (d) 360 degrees							
84.	All non living things are known as (a) Biotic Resource (b) Exhaustible Resource (c) Abiotic Resource (d) Human Resource	CHARLES THE STATE OF THE STATE						
85.	Malarial parasite is carried by (a) Culex mosquito (b) Male anopheles mosquito (c) Female anopheles mosquito (d) Aedes mosquito							
86.	Internal fertilisation does not occur in (a) Dog (b) Cow (c) Parrot (d) Frog							
87.	Regeneration is observed in							
	(a) Planaria (b) Spyrogyra (c) Yeast (d) Amoeba							
88.	Rapid combustion is							
	 (a) When gas burns, it produces heat and light (b) When material suddenly burst into flames (c) When there is evolution of heat (d) None of these 							
89.	A student is carrying out distillation process in a lab. Water is boiling in distillation flask. Water that is collected in the receiver flask is refrigerated and ice cubes are formed. Ice cubes are then kept outside the refrigerator and they start melting. Arrange following phases of water in ascending order of their total (PE + KE) energy considering that the mass of water remains the same.							
	(i) Water collected in the receiving flask (ii) Water boiling in the distillation (iii) Steam passing through the delivery tube (iv) Ice cubes formed in the refrigerator							
	(a) (iv), (iii), (i) (b) (iv), (i), (ii), (iii) (c) (iii), (iv), (i), (i) (d) (iv), (i), (iii), (iii)							

90.	or then mass, 11115	Hustiales	found to contain carbon	and oxygen in the same ratio)		
	(a) Law of conserva (c) Law of multiple	proportions	(b) Law of def (d) Law of rec	(b) Law of definite proportions (d) Law of reciprocal proportions			
91.	An atlas of India between the city of in the atlas will be _ (a) 3	cm.	chin is 1,500 km, the dis	0,000km. The actual distance stance between the two places	41 14		
		(b) 1		(d) 2			
92.	Both sound and light (a) Vacuum	t waves can be I (b) Air	propagated through (c) Both (a)and (b)	(d) None of the above			
93.	militor is a	_ mirror.	d finds that his image is	larger than himself. The			
	(a) Convex	(b) Concave	(c) plane	(d) Both (a) and (b)			
94.	Each lung is enclose covers the surface of (a) Visceral pleura	sed in a double feach lung is (b) Lung pleu		pleura. The membrane which			
95.	Nitrogenous waste p (a) Urea in tadpole a (b) Ammonia in tadpole a (c) Urea in tadpole a (d) Urea in tadpole a	nd ammonia in a pole and urea in nd adult frog	adult frog adult frog				
96.	The metal present in (a) Iron	Chlorophyll is: (b) Calciu		(d) Magnesium			
97.	Name the gas presen	t in LPG:-					
	(a) Hydrogen	(b) Oxyge	n (c) Methane	(d) Butane			
98.	Which gas is used to	replace CFC?		(a) Butane			
189	(a) HCFC	(b) RCFC	(c) DHFC	(d) HHFC			
99.	The first Menstrual f	low at puberty is	s termed:-				
	(a) Menopause		uation (c) Puberty flow	v (d) Menarche			
100.	Which among the fol		nt is incorrect about all o	A SERVICE STREET			
	(a) They are four (b) They are four (c) They coording	d in all Eukaryo	otic cells. lar organisms only ew cell.	riganenes :			

SECTION: D SOCIAL STUDIES

101.	Ahmedabad is referred as the of India.							
	(a) Ruhr	(b) Man	chester	(c) Boston	(d) Chicago			
102.	How many members are nominated by the President to the Rajya Sabha?							
	(a) 233	(b) 12		(c) 22	(d) : 250			
103.	The Industrial Revolution started in around 1750.							
(a) France (b) Bri				(c) Russia	(d) None of these			
104.	The British conquest of Bengal began with the Battle of							
	(a) Buxar	(b) Plas	ssey					
	(c) Seringapatam	(d) Sara	ighat					
105.	The architect of New	0						
	(a) Edwin Lutyens & H Baker (b) King George V							
	(c) Lord Lytton (d) Queen Elizabeth.							
106.	The existence of more than one level of government is known as							
	(a) Federalism	(b) Secularis	m	(c) Marginal	ism (d) Communalism			
107.	Money Bill is introduced							
	(a) Only in Rajya S	abha (b)	Only i	n Lok Sabha				
	(c) In both the Hou	ses (d)	By the	Speaker of Ra	ijya Sabha			
108.	In which state of Indi	a is the "Jim (Corbett N	ational Park" s	situated?			
	(a) Uttarakhand	(b) Gujarat		(c) Assam	(d) Uttar Pradesh			
109.	Which state of India is	the highest pr	roducer o	f Jute?				
	(a) Assam	(b) West Ber	ngal	(c) Bihar	(d) Odisa			

110.	A form of government where people enjoy equal political right, elect their ruler and hold them accountable is known as:						
	(a) Secular (b) Democrat	tic	(c) Socialist	(d) Republic			
111.	In order to prevent religion based exclusion and discrimination of 'lower castes', the Indian Constitution bans						
	(a) Untouchability	(b)	Religious practices				
	(c) Religion	(d)	Religious institution	ns			
112.	Sustainable development seeks to prevent						
	(a) Wastage of resources (b) Pollution (c) Loss of biodiversity (d) All of these						
113.	Of the earth's total water resources, the fresh water easily accessible for our use is						
	(a) More than 90% (b) 50% (c) 1% (d) Less than 1%						
114.	These are made to protect our natural vegetation and wild life						
	(a) National Park (b) Wildlife sanctuaries						
	(c) Biosphere reserves	(d)	All of these				
115.	The largest producer and exporter of mica in the world is						
	(a) Australia (b) India	ST	(c) USA	(d) Russia			
116.	Resource which can be renewed or reproduced is known as						
	(a) Exhaustible (b) Non-rener	wable	(c) Renewable	(d) Useful			
117.	The Act on the "Protection of Women from Domestic violence" finally became a law in the year:-						
	(a) 2003 (b) 2004		(c) 2005	(d) 2006			
118.	Right to Information (RTI) act guarantees people's right to						
	(a) Know governmental proceedings (b) Get universal primary education						
	(c) Speak out their discontent freely (d) Hold meetings and public gathering						
119.	At the village level, the judicial functions are performed by the						
1	(a) Nyaya Panchayat (b) Gram Pan	chayat	(c) District Judge	(d) Munsif			
120.	Many of India's most important mining and industrial centre are located in						
	(a) Jamshedpur (b) Rourkela	(c) B	okaro (d) All of the	ese			

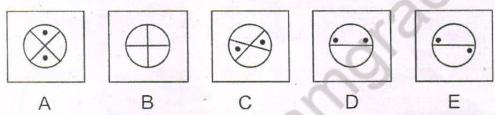
121.	Who granted East India Company the sole right to trade with the East?						
	(a)	Robert Cliv	е	(b)	Queen Elizal	oeth I	
	(c)	John Richar	dson	(d)	Queen Elizal	oeth II	
122.	The f	The first Indian woman to become the President of the Indian National Congress was:-					
	(a) Sarojini Naio		du	(b)	Kamla Nehru		
	(c)	(c) Kasturba Gandhi		(d)	Begum Rokeya Shakhawat Hossain		
123.	123. Land covered with grass shrubs on which animals can graze freely is known as:						y is known as:-
	(a) Fallow land (b) Overgra		azing	(c) Pasture	(d)	Agricultural land	
124.	Name of the first country in the world to develop hydroelectricity.						
	(a) Norway (b) I		(b) Pakista	n	(c) India	(d)	Switzerland
125.	Breeding of fish in specially constructed tanks and ponds is known as:-						
	(a) A	Agriculture	(b) Sericul	ture	(c) Piscicultu	are (d)	Viticulture

SECTION-E INTELLIGENCE

ILLUSTRATION SET

Below are given examples of the type of questions that you may find in the test. The given examples are just suggestive and given for practice and your understanding. Now, look at these examples carefully and understand how they are solved.

A. <u>EXAMPLE</u> There are five sets of figures in which 4 share a common property and make a group whereas one of them is different. Find out which figure is different from the other four.



Out of the above figures A, B, C, D & E except figure 'B' all figures have two black dots in the figure and thus form one group. Figure 'B' stands out as it does not have any black dot in it. So, the right answer is 'B' which is written in the answer box.

Answer is B

In a similar manner you may be asked to choose the set of alphabets or number which differ from their group. Try to understand the logic how they are grouped and solve the problem.

B. <u>EXAMPLE</u> Given below, some numbers are arranged in a particular sequence but one of the number is missing. Find the missing number from the given choices to complete the series.

21 31 41 51......

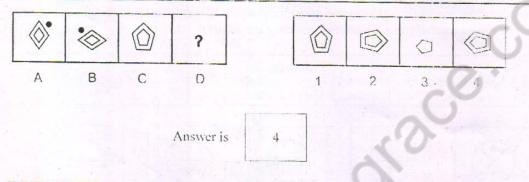
(A) 81 (B) 51 (C) 61 (D) 71 (E) 60

In the above series, there is a gap of ten numbers between the first number and the second consecutive number. To continue the series, the missing number would be 61. Therefore choice 'B' is the correct answer to be written in the answer box.

Answer is C

In a similar manner you may be asked to choose the set of given options to complete the series for alphabets or figures. You have to grasp the sequence logic and solve the given problems.

C. **EXAMPLE** Figures 'A' and 'B' have a particular relationship. Establish the similar relationship between figures 'C' and 'D' by choosing right figure amongst the four alternatives 1, 2, 3, 4 which would replace the question mark in figure 'D'.



Now solve the following questions as directed. For a question or a group of questions certain additional instructions are given. Please read those and answer accordingly.

Directions: Questions 126 and 127

Which number completes the second pair in the same way as the first pair

128. Find the missing character from among the given alternatives.

A2	C4	E6
G3	I5	?
M5	09 -	Q14

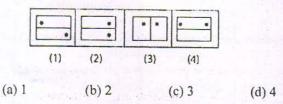
(a) J15

(b) K8

(c) K15

(d) L10

129. Choose the figure, which is different from others

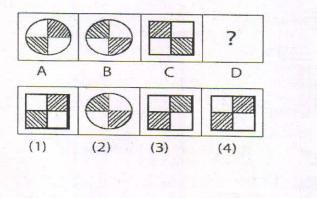


- 130. Arrange the following words as per order in the dictionary.
 - 1. Live 2. Litter 3. Little 4. Literacy 5. Living
 - (a) 3,4,2,1,5 (b) 3,2,4,5,1, (c) 4,3,5,2,1, (d) 4,2,3,1,5
- 131. In a certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?
 - (a) EJKNEGTP (b) EGKNFITP (c) EJKNFGTO (d) EJKNFTGP
- 132. If 30th January 2003 was Thursday, what was the day on 2nd March, 2003?
 - (a) Sunday (b) Monday (c) Saturday (d) Tuesday
- 133. In the following series, how many KGN occur in such a way that 'G' is in the middle and 'K' and 'N' are adjacent to it on both sides?

AKGLMNDQKGCSNGKTGKGNDZPUXGKE

- a) 5 (b) 5 (c) 1 (d) 2
- 134. Which word can't be formed by using the letters of the DISTRIBUTION word? Find that word.
 - (a) TRUST (b) SITUATION (c) TUITION (d) DISTURB

135. Select the figure from the answer set that would come in place of the question mark (?)



- (a) 1
- (b) 4
- (c) 3
- (d) 2

136. If Maya is the only daughter of Richa's grandmother's brother, how is Maya' daughter related to Richa?

- (a) Niece
- (b) Cousin
- (c) Aunt

(d) Mother

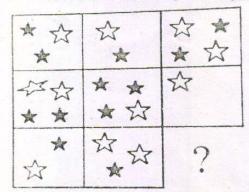
137. It is 3 O'clock in a watch and it is rotated by 10 degrees in a manner such that if the minute hand points towards the North-East, then hour hand will point towards which direction?

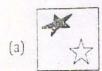
- (a) South
- (b) South West
- (c) North West
- (d) South East

138. Which one does not belong to the group?

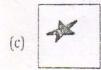
- (a) 63
- (b) 65
- (c) 84
- (d) 91

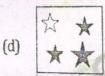
139. Which square should replace the question mark?











- Village 'W' is 20 kms to the north of village 'X'. Village 'Y' is 18 kms to the east of village 'X'. Village 'Z' is 12 kms to the west of village 'W'. If Mannu starts from village 'Y' and goes to village 'Z' via village 'W', in which direction is he from his starting point?
 - (a) North-West
- (b) South (c) North-East
- If the 7th day of a month is 3 days earlier than Friday, what day will it be on the day of the month?
 - (a) Monday
- (b) Sunday (c) Wednesday
- (d) Friday
- 142. Gaurav said to Tarun, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife". How is the boy playing football related to Gauray?
 - (a) Son
- (b) Brother
- (c) Cousin
- (d) Brother-in-law

(d) Weight

<u>Directions</u>: - Study the following arrangement of the English alphabet and answer the question given below in question no.143

Townson.									
	FJMPOWRNB	EYCKAV	LDGXUH	QISZT					
143.	Which of the following pairs of letters has as many letters between them in the above arrangement as there are between them in the English alphabet.								
	(a) AI (b) E	L	(c) LS	(d)	МО				
					C				
<u>Directions</u> : - A solid cube of each side 4 cm has been painted all faces. If it is then cut into cubical blocks each of side 2 cm, answer the questions from 144 to 146.									
144.	How many cubes are there in all of a edge 2 cm?								
	(a) 2	(b) 4	(c)	8	(d) 16				
145.	How many cubes have	ve no face pair	nted?						
	(a) 0	(b) 2	(c)	4	(d) 8				
146.	How many cubes have only one face painted?								
	(a) 0	(b) 2	(c)	4	(d) 8				
			0						
CL	0.14	ar a	1.4	1.2					
	se the letters group the riginal pair of letters					<u>I In</u>			
147.	FILM : ADGH :: MI	LK:?							
	(a) ADGF	(b) HDGE	(c)	HDGF	(d) HEGF				
148.	EIGHTY : GIEYTH :: OUTPUT : ?								
. 5	(a) TUOTUP	(b) T	TUOUTP	(c) UTOPTU	J (d) UOTU	JPT			
149.	CAT is to DDY as B	BIG is to							
1	(a) CLL	(b) CLM	(c)	CML	(d) CEP				
150.	Bag is related to Lug	ggage in the sa	ime way as Sh	ip is related to	?				

(b) Stock

(c) Cargo

(a) Coal