SET - C

# ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION: 2020

## MATHS, ENGLISH, GENERAL SCIENCE, SOCIAL STUDIES AND INTELLIGENCE

CLASS-IX

			00210	40
Time: 3 Hrs		Sed S		Max. Marks: 400
Name in Full	 		 Roll N	lo

#### 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.
- 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

# SECTION-A MATHEMATICS

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

	(a)	16, 24 and	32	(b)	12, 1	8 and 24			
	(c)	14, 21 and	28 -	(d)	18, 2	7 and 36			
2.	Find	the least squa	re munibe	r divisible b	y each one	e of 8, 9 a	and 10:	-	
	(a)	360	(b)	36	(c)	3600		(d)	$3.6 \times 10^2$
3.	If 14	48101 <i>a</i> 095	is a multi	ple of 11, w	here $a$ is	a digit, t	he valu	ne of a	is
	(a)	0	(b)		2) 1		(d)	2	
4.	Find	the value of A	and B is	$\begin{array}{ccc} & & B & A \\ \times B & 3 & & \\ & & & & \\ \end{array}$					
				5 7 A					
	(a)	A = 5 and	B = 2		(b)	A = 5	and B	= 5	
	(c)	A = 2 and	B = 2		(d)	A = 2	and B	= 5	The Large
5.	Find	the value of Z	for which	ch the numbe	er 471Z8 i	s divisibl	e by 9.		
	(a)	4	(b)	5	(c)	7		(d)	8
6.	If the	area of an eq	uilateral	triangle is 64	$4\sqrt{3}$ cm <sup>2</sup> ,	then the	side of	the tria	ingle is
	(a)	$18\sqrt{3}$ cm	(b)	9 cm	(c) 16 cm	n	(d)	$3\sqrt{2}$	cm
7.	The v	value of $\frac{4 m^2}{}$	$-a^2 + 2a$ $2m + a -$	$\frac{ab-b^2}{b}$ is					
	(a)	(2 m - a +	b) .	(b)	(2 m	-a-b			
	(c)	(2m + a +	b)	(d)	(2 m	+a-b			
8.		atio between to, the speed of			ns A and I	B is 3:5	. If trai	n B rui	ns 300km in 4
	(a)	40 km/h	(b)	60km/h	(c)	30 km/	h'	(d)	45 km/h
	-8								

Time taken will be less, if number of workers is increased to complete the same

(d)

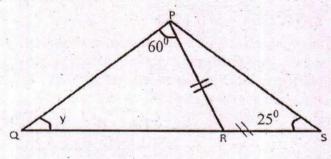
work.

18.	If a	+b+c	=9 and	ab + b	c + ca	=23, th	nen the	value of	$a^2+b^2$	$+c^2$ eq	uals to
	(a)	35		(b)	81	(c)	127	(d)	217	in the contract of	
19.		viding 2 r of the p			rts, $\frac{1}{3}$	of the fin	rst part	and $\frac{1}{2}$ o	f the sec	cond par	t are equal. The
	(a)	80		(b)	120	(c)	40	(d)	150		
20.	On se	elling a f	fan for l	Rs 810,	Sunil g	gains 8%	%. For h	ow muc	ch did h	e purcha	ase it?
	(a)	Rs 70	00	(b)	Rs 6	75	(c)	Rs 6	50	(d)	Rs 750
21.	Find	the valu	e of x	: 3 <sup>2x</sup> x 3	x+3 x 3	$1-x = (\sqrt{3})$	10				
	(a)	* -1		(b)	0		(c)	1		(d)	2
22.	3 (-0	1 <sup>6</sup> Χ b <sup>3</sup> Χ c c <sup>9</sup> Χ α <sup>12</sup>	= =		Al solve						
	(a)	$\frac{-bc^3}{a^2}$		(b) $\frac{b}{a}$	c <sup>4</sup>		(c)	$\frac{ab^4}{c^2}$		(d)	$\frac{-bc^4}{a^2}$
2,3.	If n i	is a perfe	ect cube	e, then e	every p	rime fac	ctor of '	n' occu	rs		
	(a)	One	time	(b) T	wo tim	nes	(c) 7	Three tir	nes		(d) Four times
24.	Find	the gre	atest nu	mber o	f four d	ligits wl	nich is a	perfect	square.		
	(a)	9800		(b)	986	4	· (c)	9999	9	(d)	9801
25.		ne ratio owing ca								7 : 6, t	hen which of the
	(a) 8	32		(b) 9	7		(c)	75		(d)	94
26.	and son	the mot	her is e mother	qual to will be	the age four-th	of the	father.	After 15	years,	the sum	of the ages of the of the present age
Ħ	(a)	1:5:7		(b) 2	2:10:10		(c)	1:5:6		(d)	2:8:9

27.	The ratio of the	he incon	ne of P	and Q is 5:	4. The rati	o of expe	nditure is 4:	3. The sav	ing
	of P is more	than that	of Q by	$\sqrt{16\frac{2}{3}}\%$ . W	hat % of l	at % of his income does P spend?			
	(a) $53\frac{2}{3}\%$		(b) 53		(c) 54		(d) 51		
28.	Mohan inves	sted a su f Rs. 15	m of R ,680 aft	s. 12,500 at er x year. Th	12% per a nen the val	ue of x is	mpound inter	rest. He re	ceived
	(a) 1	(b) 4		(c)	3		(d) 2		
29.	Find the conquarterly.	npound	interest	on Rs 1, 25,	000 for 9	months a	t 8% per ann	um, compo	ounded
	(a) 7551		(b)	7651	(c)	7650	(d)	7655	
30.	Pipe A can are opened what time w	at 6 AM	1 and at	fter some tir	ipe B can ne, pipe E	empty th	e tank in 18 d and tank is	hours. Bot full at 8	h pipes PM. At
	(a) 10 AM	1	(b)	8 AM	(c)	9 AM	(d)	11 AM	
31.	A car cover taken 1 hou	rs 300 ki	ms at a travel t	constant spe he same dist	ed. If its s ance. Find	speed was	10 kmph med of the car.	ore, it wou	ild have
×	(a) 60 kmp			0 kmph		0 kmph		75 kmph	
32.	respectively	y. If the	length o	in opposite of one train trains to cro	is 300 m	and that o	peed of 25 f the other tr	m/s and rain is 250	30 m/s m, then
	(a) 8 s		(b)			12 s	(d)		
33.				two digit nu		If 27 is s	ubtracted fro	m the num	iber then
	(a) 81		(b)	72	(c)	36	(d)	63	
34.	of these v	ehicles	is 120.	elers and six The number of six-whe	r of four-	wheelers	ge. The total is 3/2 times	number of the number	of wheels er of six-
	(a) 20		(b)	5	(c)	) 15	(d) 10		

35.	What is the minimum interior angle possible for a regular polygon?								
	(a) $60^{\circ}$	(b)	75 <sup>0</sup>	(c)	90°	(d)	None		
36.	What is the number	er of diago	nals in a hexa	gon?					
	(a) 4	(b) ·	6	(c)	9	(d)	10		
37.	In the adjacent fig $<$ D = $60^{\circ}$ find the	gure, the b measure o	oisectors of < f < APB.	A and <i< td=""><td>3 meet at a j</td><td>Point P. If</td><td><math>C &lt; C = 100^0</math> and</td></i<>	3 meet at a j	Point P. If	$C < C = 100^0$ and		
	(a) $60^0$ (b)	) 70 <sup>0</sup>	(c) 90 <sup>0</sup>	(d)	80°	~	B		
38.	A square and a re the two figures is	ctangle ea 9m². Wha	ch have a per t are the possi	imeter of ble dime	40 m. The d	ifference rectangle	between areas of		
	(a) 13m, 7m	(b)	14m, 6m	(c)	108m, 1m	(d)	15m ,5m		
39.	In a parallelogran	ABCD,	AB = 6  cm, B	C = 5cm	and $AC = 7$	cm. Find t	he perpendicular		
	distance between	AB and	CD.						
	(a) $6\sqrt{6}cm$	(b) 1	2√6cm	(c) 50	em	(d)2	√6cm		
·40.	Some cubic metro radius of 3.5 m. l of dimensions 25	f that amo	ount of earth	when tak	en out is spr	ead over a	rectangular plot		
	(a) 1.54 m	(b)	1.50 m	(c)	1.52 m	(d)	1.53 m		
41.	What is the difficult cylinder whose ra		THE PARTY NAMED IN	tal surfa	ce area and	curved s	urface area of a		
4.1	(a) $200\pi \text{ cm}^2$	(b) 3	$00\pi \text{ cm}^2$	(c)	$100\pi$ cm <sup>2</sup>	(d)	$10\pi \text{ cm}^2$		
42.	The mean of six would be	numbers	is 15. If 2 is	taken av	way from eve	ery numb	er, the new mean		
	(a) 13	(b)	4	(c)	17	(d)	8		
43.	The sides of the side from its opp			and 75	cm. Find the	length dra	nwn to the longest		
	(a) 27 cm	(b) 2	21 cm	(c) 3	9 cm	(d) 3	6 cm		

44. In the following figure, find the value of Y



- (a)  $50^{\circ}$
- (b) 65°
- (c)  $.60^{\circ}$
- (d) 70°
- 45. A cylindrical tank has a capacity of 5632 m<sup>3</sup>. If the diameter of its base is 16m, find its depth.
  - (a) 28 m
- (b) 25 m
- (c) 16 m
- (d) 29 m
- 46. The value of  $\left(-\frac{3}{2} \times \frac{4}{5}\right) + \left(\frac{9}{5} \times \frac{-10}{3}\right) \left(\frac{1}{2} \times \frac{3}{4}\right)$ ?
  - (a)  $\left(-\frac{503}{40}\right)$

(b)  $\left(-\frac{203}{40}\right)$ 

(c)  $\left(-\frac{403}{40}\right)$ 

- (d)  $\left(-\frac{303}{40}\right)$
- 47. The abscissa of a point is its distance from the
  - (a) Origin
- (b) X-Axis
- (c) Y-Axis
- (d) None
- 48. What is the value of m, if  $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2m-1}$ 
  - (a) m = 1

(b) m = -2

(c) m = -1

- (d) m = 2
- 49. "If a number when divided by 4 leaves remainder 2 or 3", then which one is the correct 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

- The value of  $\frac{\sqrt{0.2304} + \sqrt{0.1764}}{\sqrt{0.2304} \sqrt{0.1764}}$ 50.
  - (a) 15
- (b) 16 (c) 5 (d)
- 150

# SECTION - B ENGLISH

51.	Select the word close (a) Recurrent	sest in meaning to (b) Trivial	"Mortal" (c) Fatal	(d) F41					
2	(a) recuireme	(b) Iliviai	(c) Falai	(d) Eternal					
52.	Mark the word with (a) Maintenance	the correct spelli (b) Maintenna		(d) Maintainance					
53.	The coach insisted short for that position		the centre position, ct verb)	even though he's too					
	(a) play	(b) played	(c) plays	(d) none of these					
54.	King of Section the cave. (Use Artic	otland saweles)	spider trying to climb up t	co ceiling of					
	(a) The, a, the	(b) A, a, the	(c) No article, a, no article	e (d) The, a, no article					
55.	Raju relishes not on	ly Chinese	continental food. (Use	appropriate Conjunction					
	(a) also	(b) but	(c) but also	(d) rather					
56.	You must learnl	English every day	to improve it. (Use approp	oriate determiner)					
	(a) a few	(b) a little	(c) a lot of	(d) none of these					
57.	Arrange the jumble	d words to form a	meaningful sentence						
	most/inventor/world/Thomas/Alva/Edison/the/in/is/remarkable/the								
	(a) The remarkable	(a) The remarkable inventor in the most world is Thomas Alva Edison.							
	(b) Thomas Alva Ed	lison is the most r	emarkable inventor in the	world.					
	(c) Is the most rema	rkable inventor in	the world Thomas Alva E	dison.					
	(d) In the world mos	st remarkable inve	entor is Thomas Alva Edise	on.					

#### 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

<b>6</b> 3.	She plays better than do. (Choose appropriate pronoun)
	(a) I (b) my (c) may (d) myself
64.	I in a school in Delhi since 2017. (Choose appropriate form of tense)
	(a) has studied (b) has been studying (c) have been studying (d) will study
65.	There isn't any smog in the Highlands of Scotland,? (Choose appropriate question tag)
	(a) aren't it (b) isn't it (c) is there (d) there isn't
66.	Choose the best meaning of the Idiom "to play to the gallery"
	(a) to watch the play with interest (b) to enact the play in the gallery (c) to endeavour to gain cheap popularity (d) to sit comfortably
67.	The speckled tortoise walks steadfastly towards his goal? (Choose the adverb) (a) speckled (b) steadfastly (c) towards (d) goal
68.	I wrote an article for the school magazine. (Change from active to passive voice)
	<ul> <li>(a) An article for the school magazine I had written.</li> <li>(b) An article was written by me for the school magazine.</li> <li>(c) I have written an article for the school magazine.</li> <li>(d) The school magazine and an article I wrote for.</li> </ul>
69.	Empty vessels much noise. (Select the correct form of verb)
	(a) make (b) are making (c) have made (d) makes
70.	Gullible (Choose the word with opposite meaning)
	(a) trusting (b) cynical (c) clever (d) resourceful
71.	Candidates mustthe general conditions for admission.
	(a) do (b) prepare (c) satisfy (d) create
72.	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.
	AN WILL COLUMN
	(a) Working in industry (b) Labour in factory

75.	Choose the correct order to make the sentence below meaningful:-
	Wear/these/people/almost/a/majority/of/days/a watch 1 2 3 4 5 6 7 8 9
	(a) 456731928 (b) 457613829 (c) 456792318 (d) 456731289
	SECTION- C GENERAL SCIENCE
	그렇게 보았다. 그렇게 되었다. 그렇게 되는 그렇게 되는 그렇는 그렇게 되었다.
76.	The boy is pulling a cart by a force of 100N. The frictional force experienced by the car is 20 N. The force causing the motion of the cart is:-
	(a) 100 N (b) 120 N (c) 80 N (d) 5 N
77.	The cans used for storing food are made by electroplating:-
	(a) Silver onto iron (b) Chromium onto iron (c) Gold onto iron (d) Tin onto iron
78.	The impression of an image does not vanish immediately from the retina. It persists for
	(a) $(1/60)^{th}$ of a second (b) $(1/12)^{th}$ of a second (c) $(1/6)^{th}$ of a second (d) $(1/16)^{th}$ of a second
79.	The Sun appears to rise in the East and set in the West because:-
	<ul> <li>(a) Earth rotates from East to West on its axis.</li> <li>(b) Earth rotates from West to East on its axis.</li> <li>(c) The Sun is at the centre of universe.</li> <li>(d) None of these.</li> </ul>
80.	Pressure is equal to
	<ul> <li>(a) Area / force on which it acts</li> <li>(b) Force / area on which it acts</li> <li>(c) Volume / force on which it acts</li> <li>(d) Force / volume on which it acts</li> </ul>
81.	An ultrasound equipment works at a frequency
	(a) Higher than 20,000 Hz (b) Higher than 10,000 Hz (c) Lower than 20,000 Hz (d) Lower than 10,000 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
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
	<ul> <li>(a) When gas burns, it produces heat and light</li> <li>(b) When material suddenly burst into flames</li> <li>(c) When there is evolution of heat</li> <li>(d) None of these</li> </ul>
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
4	(a) (iv), (iii), (i) (b) (iv), (i), (iii), (iii) (c) (iii), (iv), (ii), (i) (d) (iv), (i), (iii), (ii)

90.	The different samples of CO <sub>2</sub> were found to contain carbon and oxygen in the same ration of their mass. This illustrates								
	(a) Law of conse	ervation of	mass	(b) Law of defin	ite proportions				
	(c) Law of multi	iple propor	rtions	(d) Law of recipr	rocal proportions				
91.	An atlas of Indbetween the city in the atlas will (a) 3	or bhopa	and Cochin is cm.	1,500 km, the dista	000km. The actual distance between the two place				
92.	Both sound and (a) Vacuum	light wave (b) A	s can be propaga Air (c) Bo		(d) None of the above				
93.	(c) Both (d) and (b) (d) None of the above								
	mirror is a	mirro	or.	mar ino mago 13 10	agor than minisch. The				
	(a) Convex	(b) (	Concave	(c) plane	(d) Both (a) and (b)				
94.	Each lung is en covers the surfact (a) Visceral pleu	e of each	lung is	orane called as ple	eura. The membrane which				
					(d) Parietal pleura				
95.	Nitrogenous was  (a) Urea in tadpo  (b) Ammonia in  (c) Urea in tadpo  (d) Urea in tadpo	le and ami tadpole an le and adu	monia in adult fr d urea in adult fr lt frog	og					
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96.	The metal present (a) Iron	t in Chloro (b)	ophyll is:- Calcium	(c) Oxygen	(d) Magnesium				
97.	Name the gas pre	esent in LP	G:-		(4)				
	(a) Hydrogen	(b) *	Oxygen	(c) Methane	(d) Butane				
98.	Which gas is used to replace CFC?								
	(a) HCFC	(b)	RCFC	(c) DHFC	(d) HHFC				
99.	The first Menstru	The first Menstrual flow at puberty is termed:-							
	(a) Menopaus	se (b)	Menstruation	(c) Puberty flow	(d) Menarche				
100.	Which among the	following		correct about all org					
	(b) They are f	found in M	l Eukaryotic cell	S.					
	(c) They coor	dinate to	lulti cellular orga produce new cell	anisms only					
	(d) They are s	small sized	and mostly inte	tnal					
			The strobery line	A A A A A A A A A A A A A A A A A A A					

# SECTION: D SOCIAL STUDIES

101.	Ahmedabad is referred as the of India.	
	(a) Ruhr (b) Manchester (c) Boston (d)	Chicago
102.	How many members are nominated by the President to the Rajya Sa	bha?
	(a) 233 (b) 12 (c) 22 (d)	250
103.	The Industrial Revolution started in around 1750.	
	(a) France (b) Britain (c) Russia (d) Non	e of these
104.	The British conquest of Bengal began with the Battle of	
	(a) Buxar (b) Plassey	
	(c) Seringapatam (d) Saraighat	
105.	The architect of New Delhi was	
	(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) Secularism (c) Marginalism	(d) Communalism
107.	Money Bill is introduced	
	(a) Only in Rajya Sabha (b) Only in Lok Sabha	
	(c) In both the Houses (d) By the Speaker of Rajya Sabl	ha
108.	In which state of India is the "Jim Corbett National Park" situated?	
	(a) Uttarakhand (b) Gujarat (c) Assam	(d) Uttar Pradesh
109	O. Which state of India is the highest producer of Jute?	
	(a) Assam (b) West Bengal (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) Democratic (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 institutions
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 (c) USA (d) Russia
116.	Resource which can be renewed or reproduced is known as
	(a) Exhaustible (b) Non-renewable (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
	(a) Nyaya Panchayat (b) Gram Panchayat (c) District Judge (d) Munsif
120.	Many of India's most important mining and industrial centre are located in
	(a) Jamshedpur (b) Rourkela (c) Bokaro (d) All of these

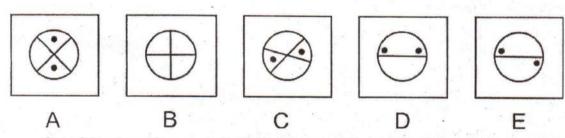
121.	Who	granted East In	ndia Company th	he sole	right to trade wi	th the E	ast ?						
	(a)	Robert Clive		(b)	Queen Elizabe								
	(c)	John Richard	* 10.000	(d)	Queen Elizab								
122.	The	first Indian wor	man to become	the Pres	sident of the Ind	ian Nati	onal Congress was:						
	(a)	Sarojini Nai	du	(b)									
	(c)	Kasturba Ga	andhi	(d)	Begum Roke	hawat Hossain							
123.	Lane	Land covered with grass shrubs on which animals can graze freely is known as:-											
	(a) I	Fallow land	(b) Overgran	zing	(c) Pasture	(d)	Agricultural land						
124.	Nar	ne of the first c	ountry in the w	orld to	develop hydroel	ectricity							
	(a)	Norway	(b) Pakistar	1	(c) India	(d)	Switzerland						
125.	Bre	eding of fish ir	specially cons	tructed	tanks and ponds	is know	n as:-						
	(a)	Agriculture	(b) Sericult	ure	(c) Piscicult	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. **EXAMPLE** 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.....

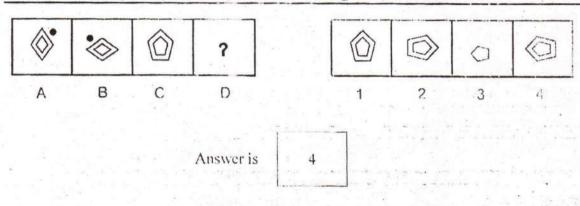
(A) 81 (B) 51 (C) 61 (D) 71 (E) 60

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

126. 3:243::5:\_\_\_\_\_?

- (a) 425
- (b) 465
- (c) 546
- (d) 3125

127 6:24 :: 5: ?

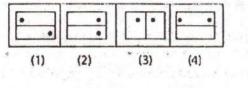
- (a) 23
- (b) 20
- (c) 26
- (d) 22

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

Choose the figure, which is different from others



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

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

In a certain code, TEACHER is written as VGCEJGT. How is CHILDREN written in that code?

- (a) EJKNEGTP
- (b) EGKNFITP (c) EJKNFGTO
- (d) EJKNFTGP

If 30th January 2003 was Thursday, what was the day on 2nd March, 2003? 132.

- (a) Sunday
- (b) Monday
- (c) Saturday
- (d) Tuesday

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

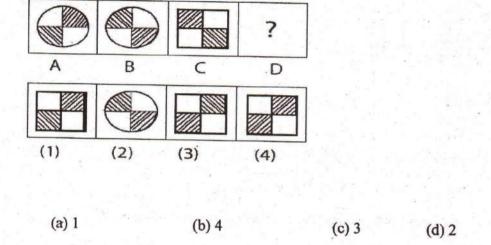
- (b) 5
- (c) 1
- (d) 2

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 (?)

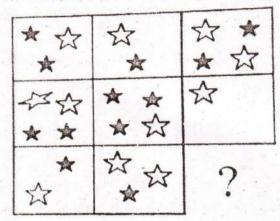


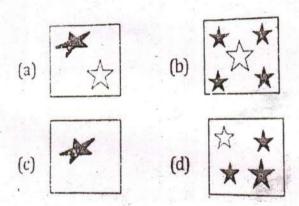
- 136. If Maya is the only daughter of Richa's grandmother's brother, how is Maya' daughter related to Richa?
  - (a) Niece
- (b) Cousin
- (c) Aunt

- (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

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 140. 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 141. day of the month?

  - (a) Monday (b) Sunday (c) Wednesday
- (d) Friday
- Gaurav said to Tarun, "That boy playing with the football is the younger of the two 142. 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

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

F.	JM	PO	W	RI	NB	E	Y	C	K	A	V	L	D	G	X	U	H	0	I	S	Z	T
----	----	----	---	----	----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

	I J IVI I O V	RIVERICKTIE	Donongion		
143.		e following pairs of lett as there are between the			the above
	(a) AI	(b) EL	(c) LS	(d) MO	
	motorcommunity.	id cube of each side 4 c h of side 2 cm, answer t			en cut int
144.	How many o	cubes are there in all of a	edge 2 cm?		
	(a) 2	(b) 4	(c) 8	(d) 16	
145.	How many	cubes have no face painte	ed?		
	(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	
				C page on any	
Choc	se the letters	group that best represe	ents a relationship	similar to the one ex	pressed in
		f letters group in the fo			
147.	FILM : AD	GH :: MILK : ?			
	(a) AD	GF (b) HDGE	(c) HDGF	(d) HEGF	
148.	EIGHTY:	GIEYTH :: OUTPUT : ?			
	(a) TU	OTUP (b) TU	JOUTP (c)	UTOPTU (d	UOTUPT
149.	CAT is to I	DDY as BIG is to			
	(a) CL	L (b) CLM	(c) CML	(d) CEP	
150.	Bag is relat	ed to Luggage in the san	ne way as Ship is rel	ated to?	
	(a) Coa	al (b) St	ock (c)	Cargo (d	) Weight