ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION: 2020

MATHS, ENGLISH, GENERAL SCIENCE, SOCIAL STUDIES AND INTELLIGENCE

CLASS-IX

0007415

INSTRUCTIONS

- 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.
- 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.
- 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.
- 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

1. 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) $\left(-\frac{303}{40}\right)$

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

(c) m = -1

- (d) m = 2
- "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 $\frac{\sqrt{0.2304} + \sqrt{0.1764}}{\sqrt{0.2304} \sqrt{0.1764}}$
 - (a) 15
- (b) 16 (c) 5
- (d) 150
- Three numbers are in the ratio 2:3:4. The sum of their cubes is 33957. The numbers are
 - (n) 16, 24 and 32
- (b) 12, 18 and 24
- (c) 14, 21 and 28
- (d) 18, 27 and 36
- Find the least square number divisible by each one of 8, 9 and 10;-
 - (a) 360
- (b) 36
- (c) 3600
- (d) 3.6 x 102

8.	If 14	8101a095 is a	multipl	le of 11,	where	a is a	digit, th	he value	of a is	
	(a)	0	420	4 B /	(c)	1		(d)	2	
9.	Find t	the value of A ar	id B in	×B 3						
				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	
10.	Find	the value of Z fo	r which	the nun	iber 47	1Z8 is 0	livisibl	e by 9.		
	(a)	4	(b)	5		(c)	7		(d)	8
11.	If the	area of an equil	ateral tr	iangle is	64√3	cm2, th	en the	side of	the trian	gle is
	(a)	18√3 cm	(b)	9 cm	(c)	16 cm		(d)	3√2 cr	n
12.	The	value of $\frac{4 m^2 - 2}{2}$	$a^2 + 2a$ $a + a - a$	$\frac{b-b^2}{b}$	is					
		(2m-a+b)				(2 m -	a-b			
	(c)	(2m+a+b)			(d)	(2m +	a-b)			
13.		ratio between the s, the speed of tr			trains A	and B	is 3 : 5	. If trai	n B run	s 300km in 4
	(a)	40 km/h	(b)	60km/1	1	(c)	30 km	ı/h	(d)	45 km/h
14.		years ago, Dilip be equal to five								
	(a)	14, 38 years	(b)	16, 40	years	(c)	12, 36	years	(d)	None
15.	The	probability of ge	tting a	7 in a sin	gle thr	ow of a	dice is	t		
	(a)	1	(b)	0	(c)	1/6	(d)	1/2		
16.	A's i	ncome is 60% n	ore tha	n that of	В. Ву	what pe	ercent i	s B's in	come le	ss than A's?
	(a)	37%	(b)	37.5%		(c)	36.5%	6	(d)	36%

17.	Byj	oining (-3, 2),	(-3, -3)	and (-3	3, 4), wh	ich of	the follo	wing is	obtain	ed?	
	(a)	A triangle									
	(b)	A straight li	ne parall	el to x	- avis						
	(c)	A straight li	ne parall	el to v	axis		2				
	(d)	A straight li				in					
18.	The	number of time	s a partie	cular of	bservatio	on occ	urs in a o	itan da	en in an	Mad to	
	(a)	Frequency	(b)	Ran		(c)	Mean			of these	
19.	By se	elling 33 m of c Find his gain	or loss p	raper le ercent.	oses an a	moun	t equal to	the sel	lling pr	ice of 3 m of	
	(a)	gain 8 ¹ / ₃ %	(b)	loss 8	3 %	(c)	gain 7	%	(d)	loss 7%	
20.	Thre	e cubes of meta a single cube.	d whose The edge	edges	are 6 cm	, 8 cm	and 10cr	m respe	ectively	are melted to)
	(a)	24 cm (b)	20 cm		18 cm		12 cm				
21.	Find	the single disco	unt equi	valent	to two si	uccess	ive disco	unts of	20% a	nd 10%	
	(a)	25%	(b)	30%		(c)	28%		(d)	10%	
22.	Whic	h of the follow	ing is no	t a case	of direc	t vari	ation?				
	(a)	Number of sh	neets of s	some ki	ind are in	ncreas	ed when	their to	tal wei	oht is increase	ed
	(b)	More quantity	y of petr	ol is re	quired to	trave	l more di	stance	with a	fixed speed	-
	(c)	More fees wo									
	(d)	Time taken w work.									2
23.	If a	b+c=9 and	ab + bc	+ ca =	= 23, the	n the v	value of a	$a^{2} + b^{2}$	+ \(\sigma^2\) eq	uals to	
	(a)	35	(b)	81	(c)	127	(d)	217			
24.	On di-	viding 200 into of the parts is	two part	s, $\frac{1}{3}$ of	the first	part a	nd ½ of t	he seco	and part	are equal. Th	ie
	(a)	80	(b)	120	(c)	40	(d)	150			

On selling a fan for Rs 810, Sunil gains 8%. For how much did he purchase it?

(a) Rs 700 (b) Rs 675 (c) Rs 650

(a) -1 (b) 0 (c) 1

Find the value of x: $3^{2x} \times 3^{x+3} \times 3^{4-x} = (\sqrt{3})^{10}$

25.

26.

3 (-a6x b3x c21)

(d) Rs 750

(d) 2

	A Eax	911				
	(a) -	sc ³	(b) $\frac{bc^4}{a^2}$	$(c)\frac{-ab^4}{c^2}$	(d)	$\frac{-bc^4}{a^2}$
28.	If n is a p	erfect cube,	then every prin	ne factor of 'n' oc	curs	
	(a) O	ne time	(b) Two times	(c) Three	times	(d) Four times
29.	Find the	greatest nun	nber of four digi	ts which is a perf	ect square.	
	(a) 9	800	(b) 9864	(c) 9	999 (d)	9801
30.				of x and y, 8 yes		then which of the
	(a) 82		(b) 97	(c) 75	(d)	94
31.	and the r	nother is eq nis mother v	ual to the age of	the father. After f of his father's a	15 years, the sun	the ages of the son n of the ages of the of the present ages
	(a) 1:5:7		(b) 2:10:10	(c) 1:5:6	(d)	2:8:9
32.					of expenditure is income does P s	
	(a) $53\frac{2}{3}$	%	(b) 53 ½ %	(c) 54 ¹ / ₃	% (d)	51 2 %
33.				0 at 12% per annur. Then the value		nterest. He received
	(a) 1	(b) 4		(c) 3	(d) 2	

Find the compound interest on Rs 1, 25,000 for 9 months at 8% per annum, compounded quarterly.

	(a) 7551	(b)	7651	(c)	7650	(d)	7655	
35.	Pipe A can fill are opened at 6 what time was	5 AM and af	ter some tim					
	(a) 10 AM	(b)	8 AM	(c)	9 AM	(d)	11 AM	
36.	A car covers 30 taken I hour les						ore, it would	have
	(a) 60 lomph	(b) 50	kmph	(c) 40	kmph	(d) 7	5 kmph	
37.	Two trains are respectively. If find the time ta	the length of	one train is	300 m ar	d that of	need of 25 of the other tr	m/s and 30 ain is 250 m,	m/s then
	(n) 8 s	(b) 10)9.	(c) 12	i s	(d) 1	4som din	
38.	The sum of the the digits get re	COCOMINADO DE CAR	PART HORSE A THE DEPOSIT YOUR	ber is 9, I	f 27 is su	ibtracted from	n the number	then
	(a) 81	(b) 72		(c) 36	,	(d)	3	
,39.	There are some of these vehicl wheelers. Find	es is 120. Ti	he number o	f four-wh	celers is			
	(a) 20	(b) 5		(c) 1	5	(d) 10	+1	
40.	What is the mir	nimum interio	or angle poss	ible for a	regular p	oolygon?		
	(a) 60 ⁰	(b)	75 ⁰	(c)	900	(d)	None	
41.	What is the nur	nber of diago	nals in a bex	agon?				
	(a) 4	(b)	6	(c)	9	(d)	10	
42.	In the adjacent <d 60°="" =="" find="" t<="" td=""><td>figure, the b</td><td>oisectors of < of <apb.< td=""><td>A and <</td><td>B meet</td><td>at a point P.</td><td>If <c 100<="" =="" td=""><td>and 100</td></c></td></apb.<></td></d>	figure, the b	oisectors of < of <apb.< td=""><td>A and <</td><td>B meet</td><td>at a point P.</td><td>If <c 100<="" =="" td=""><td>and 100</td></c></td></apb.<>	A and <	B meet	at a point P.	If <c 100<="" =="" td=""><td>and 100</td></c>	and 100
	(a) 60°	(b) 70 ⁰	(c) 90 ⁰	(b)	800	~		\ "

43.						nsions of the r		?	
	(a)	13m, 7m	(b)	14m, 6m	(c)	108m, 1m	(d)	15m ,5m	
44.	Inap	arallelogram /	ABCD,	AB = 6 cm, B	C = 5cm	and AC = 7cr	n. Find	the perpendicula	r
	distar	sce between	AB and	CD.					
	(a) 6	√6 <i>cm</i>	(b) 12	.√6cm	(c) 50	em	(d)2	√6cm	
45.	radiu	s of 3.5 m. If	that amo	unt of earth v	vhen tak		d over a	and which has a rectangular plo d?	
	(a)	1.54 m	(b)	1.50 m	(c)	1.52 m	(d)	1.53 m	
46.		is the differ der whose radi			al surfa	ce area and c	urved s	urface area of	a
	(a)	200π cm ²	(b) 30	00π cm ²	(c)	$100\pi\;cm^2$	(d)	10π cm ²	
47.	The woul		umbers i	s 15. If 2 is	taken av	vay from ever	y numbe	er, the new mea	n
	(a)	13	(p)	4	(c)	17	(d)	8	
48,		sides of the tri			and 75 c	m. Find the le	ngth dra	wn to the longer	t
	(a) 2	7 cm	(b) 21	cm	(c) 3	9 cm	(d) 3	6 cm	
49.	In the	following fig	ure, find	the value of	Y				
			<u></u>	/	600	# 25°	À,		
	(a)	50°	(b)	65 ⁰	(c)	60°	(d)	70°	
50.	A cy depth		has a cap	pacity of 563	2 m³. If	the diameter o	f its bas	e is 16m, find i	s
	(a)	28 m	(b)	25 m	(c)	16 m	(d)	29 m	

SECTION B ENGLISH

51,	Cand	lidates must		the	gener	al cond	itions for adm	icelon	
	(a)	do	(b)	prepare	2-11-1	(0)	satisfy	(d) c	reate
52.	He re	esorts	sharp	practice is	n hie d	enlinos			
	(a)	at	(b)	to	i ino u	(c)	in	(d)	for
53.	********	English	h is an in	ternation	al lano	mana			The state of
	(a)	No article			ar ming	uage.			
	(b)	The				1			
	(c)	A							
	(d)	An							
54.	The v	vord 'Indust	rious' m	eans.					
	(a)	Working in	industry	,	(b)	Labo	ur in factory		
	(0)	Hard work	ing		(d)	Laid	back		
55.	Choo	se the correct	order to	make the	sente	nce belo	ow meaningfu	d:-	
	Wear	/these/peopl	e/almost	/a/major	itv/of/	dave/s	watch		
	1	2 3	4	5 6	7		9		
	(a)	456731	000						
	(c)	456792	7 4 8				613829		
	(0)	430/92	318		(d)	456	731289		
56.	Select	the word clo	sest in m	enning to	"Mor	enler.			
	(a) Re	current	(b) T	rivial	-	(e) Fa	tal	GN Per	
-						Chelia	sai .	(d) Etc	rnai
57.	Mark	the word with	the con	rect spelli	ng				
	(a) M	aintenance	(b) M	laintenna	ace	(c) Ma	aintanance	(d) Ma	intainance
58.	The co	each insisted	that Ron	aldo		the cen	tre position, e	ven thou	oh ha'e ton
	short f	or that position	on. (Use	the corre	et verb)		The second	,
	, (a) pla	y	(b) pl	ayed -		(c) pla	ys.	(d) nor	ne of these
59.	-	Pine rec				and the same of			
29.	the cav	King of Sco ve. (Use Artic		w	spider	trying	to climb up to	c	tiling of
	JayTh	e, a, the	(b) A,	a, the	(c) No	article	, a, no article	(d) The	a, no article

60.	Raju relishes no	ot only Chinese	continental food. (Us	e appropriate Conjunction)
	(a) also	(b) but	(e) but also	(d) rather
61.	You must learn	English every da	y to improve it. (Use appr	ropriate determiner)
	(a) a few	(b) a little	(c) a lot of	(d) none of these
62.	Arrange the jun	nbled words to form	a meaningful sentence	
	most/inventor/	world/Thomas/Alva	/Edison/the/in/is/remar	kable/the
	(a) The remarks	able inventor in the n	nost world is Thomas Alv	n Edison.

(b) Thomas Alva Edison is the most remarkable inventor in the world.

(c) Is the most remarkable inventor in the world Thomas Alva Edison.

(d) In the world most remarkable inventor is Thomas Alva Edison.

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.

Why does the moon play a greater role than the sun in causing tides? 63.

- (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.

How are tides useful for the economy of the country? 64.

(a) Tides bring treasure of sea with them.

(b) During high tides, big ships can reach the ports thus opening new vistas for business.

(e) Tides destroy enemies of the country.

(d) None of the above.

65.	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 frozer (d) They keep the port silted.		
66.	How can tides solve the power problem o	f the world?	
	 (a) Electricity is being produced through ti (b) Tidal waves keep the steamers in motion (c) Tidal waves melt the ice and save power (d) None of the above. 	on.	
67.	Which word in the passage means 'to bring (a) Proximity (b) Silted	g under control*? (c) Immense	(d) Harness
68.	She plays better than do. (Chorda) 1 do. (Chorda)	ose appropriate pro (c) may	noun) (d) myself
69.	1 in a school in Delhi since 201 (a) has studied (b) has been studyin	7. (Choose approp	riate form of tense)
70.	There isn't any smog in the Highlands of tag)		STATE OF THE PROPERTY OF THE P
	(a) aren't it (b) isn't it	(c) is there	(d) there isn't
71	Choose the best meaning of the Idiom "to	play to the gallery	
	(a) to watch the play with interest (c) to endeavour to gain cheap popularity	(b) to enact the p (d) to sit comfort	olay in the gallery tably
72.	The speckled tortoise walks steadfastly tow (a) speckled (b) steadfastly	vards his goal? (Ch (c) towards	oose the adverb) (d) goal
73.	I wrote an article for the school magazine.	(Change from activ	ve to passive voice)
	(a) An article for the school magazine (b) An article was written by me for the (c) I have written an article for the school magazine and an article	had written. e school magazine.	
74.	Empty vessels much noise. (Se	lect the correct for	n of verb)
	(a) make (b) are making	(c) have made	(d) makes
75.	Gullible (Choose the word with oppo (a) trusting (b) cynical	site meaning) (c) clever	(d) resourceful

SECTION: C GENERAL SCIENCE

76.	The m	etal present in	Chloro	phyll is:-				
	(n)	Iron	(b)	Calcium	(c) On	cygen	(d) M	agnesium
77.	Name	the gas presen	t in LPC	G:-				
	(a) H	ydrogen	(b)	Oxygen	(c) M	ethane	(d) B	utane
78.	Which	h gas is used to	replace	cFC?				
	(a) H	CFC	(b)	RCFC	(c) D	HFC	(d) H	IHFC
79.	The f	irst Menstrual	flow at	puberty is terme	d:-			
	(a)	Menopause	(b)	Menstruation	(c) Pu	berty flow	(d)	Menarche
80.	Whic	h among the fo	llowing	g statement is inc	correct	about all org	anelles?	
	(a) (b) (c) (d)	They are fou They coordin	nd in N	Il Eukaryotic cel fulti cellular org produce new cel d and mostly into	anisms 1.	only		
81.	The tis 20	ooy is pulling a N. The force c	cart by ausing	a force of 100N the motion of the	I. The f	rictional forc	e experie	need by the cart
	(a)	100 N	(b)	120 N	(c)	80 N	(d)	5 N
82.	The	cans used for st	oring fo	ood are made by	electro	plating:-		
	(a) S	ilver onto iron	(b) Chr	omium onto iron	n (c) G	old onto iron	(d) Tin o	onto iron
83.	The	impression of a	ın imag	e does not vanis	h imme	diately from	the retina	a. It persists for :-
	(a) (c)	(1/60) th of a (1/6) th of a s		(b))th of a secon		
84.	The	Sun appears to	rise in	the East and set	in the \	West because	e-	
	(a) (b)			East to West on West to East on				

The Sun is at the centre of universe.

None of these.

(c) (d)

85.	Pressure is equal to
	(a) Area / force on which it acts (b) Force / area on which it acts (c) Volume / force on which it acts (d) Force / volume on which it acts
86.	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
87.	When electrodes are immersed in water and electricity is passed, the bubble formed on the negative terminal is actually gas.
	(a) Hydrogen (b) Carbon dioxide (c) Oxygen (d) Nitrogen
88.	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
89.	All non-living things are known as
	(a) Biotic Resource (b) Exhaustible Resource (c) Abiotic Resource (d) Human Resource
90.	Malarial parasite is carried by
	(a) Culex mosquito (b) Male anopheles mosquito (c) Female anopheles mosquito (d) Aedes mosquito
91.	Internal fertilisation does not occur in
-	(a) Dog (b) Cow (c) Parrot (d) Frog
92.	Regeneration is observed in
	(a) Planaria (b) Spyrogyra (c) Yeast (d) Amoeba
93.	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

A student is carrying out distillation process in a lab. Water is boiling in distillation flask.

	cubes are then kept	outside the refrig cending order of	gerator and they sta-	and toe cubes are formed. Ice rt melting. Arrange following 3) energy considering that the
	(ii) Water (iii) Steam	collected in the re boiling in the dis passing through bes formed in the	tillation the delivery tube	
	(a) (iv), (iii), (ii), (i) (c) (iii), (iv), (ii), (i)		(i), (ii), (iii) (i), (iii), (ii)	
95.	The different sample of their mass. This ill	s of CO ₂ were for ustrates	und to contain carbo	n and oxygen in the same ratio
	(a) Law of conservati (c) Law of multiple p			finite proportions ciprocal proportions
96.	An atlas of India is between the city of I in the atlas will be	Shopal and Cochi	ng scale 100cm = 5 in is 1,500 km, the d (c) 10	0,000km. The actual distance istance between the two place (d) 2
97.	Both sound and light	waves can be pro	opagated through	
	(a) Vacuum	(b) Air	(c) Both (a)and (b)	(d) None of the above
98.	A man stands in from		finds that his image	is larger than himself. The
	(a) Convex	(b) Concave	(c) plane	(d) Both (a) and (b)
99.	Each lung is enclose covers the surface of	d in a double mer each lung is	mbrane called as plea	ura. The membrane which
	(a) Visceral pleura	(b) Lung pleurs	a (c) Peritoneal ple	ura (d) Parietal pleura
100.	Nitrogenous waste p	roducts are elimi	nated mainly as	
	(a) Urea in tadpole a	nd ammonia in a	dult frog	
	(b) Ammonia in tadp	pole and urea in a	dult frog	
	(c) Urea in tadpole a	and adult frog		
			dult frog	

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SECTION: D SOCIAL STUDIES

101	. Who	o granted East in	dia Comp	pany the sole i	igni to trans	e with the i	Mat 1
	(a)	Robert Clive		(b)	Queen Eli	zabeth I	
	(c)	John Richard	ison	(d)	Queen Eli	zabeth II	
102	. The	first Indian won	nan to be	come Presiden	t of the Ind	ian Nations	al Congress was:-
	(a)	Sarojini Naio	du	(b)	Kamla Ne	hru	
	(c)	Kasturba Ga	ndhi	(d)	Begum R	okeya Shak	chawat Hossain
103	. Lar	d covered with g	grass shru	bs on which a	nimals can	graze freel	y is known as:-
	(a)	Fallow land	(b) Ov	ergrazing	(c) Pastur	e (d)	Agricultural land
104	k Na	me of the first co	untry in t	he world to de	evelop hydr	oelectricity	
	(n)	Norway	(b) Pai	cistan	(c) India	(d)	Switzerland
105	. Bre	eding of fish in	specially	constructed ta	nks and por	ads is know	m as:-
	(a)	Agriculture	(b) Ser	riculture	(c) Piscic	ulture (d)	Viticulture
100	5. Ah	medabad is refer	red as the	of	India.		
	(a)	Ruhr	(b)	Manchester	(c) Bosto	n (d)	Chicago
103	7. Но	w many member	rs are non	ninated by the	President to	o the Rajya	Sabha?
	(a)	233	(p)	12	(c) 2	2 (d)	250
100	8. Th	e Industrial Revo	olution st	arted in	around 17	50.	
	(a)	France	(b) Br	itain	(c) Russi	a (d) N	lone of these
10	9. The	British conquest	of Benga	d began with t	he Battle of	_	
	(a) Buxar	(b) Plassey			
	(c) Seringapatam	(d) Saraighat			

110.	The architect of Nev	w Delhi was	100		
	(a) Edwin Lutyens	& H Baker	(b) Kir	ng George V	
	(c) Lord Lytton		(d) Qu	een Elizabeth.	
111.	The existence of mo	ore than one leve	el of gov	remment is known a	is
	(a) Federalism	(b) Secularisa	m	(c) Marginalism	(d) Communalism
112.	Money Bill is introd	duced			
	(a) Only in Rajya	Sabha (b)	Only	in Lok Sabha	
	(c) In both the Ho	ouses (d)	By the	e Speaker of Rajya	Sabha
113.	In which state of In	dia is the "Jim (Corbett 1	National Park" situa	ted?
	(a) Uttarakhand	(b) Gujarat		(c) Assam	(d) Uttar Pradesh
114.	Which state of India	is the highest p	roducer	of Jute?	
	(a) Assam	(b) West Ber	ngal	(c) Bihar	(d) Odisa
115.	A form of government them accountable is	nent where peop s known as:	ole enjoy	equal political right	nt, elect their ruler and hold
	(a) Secular	(b) Democra	atic	(c) Socialist	(d) Republic
116.	In order to prever Indian Constitution		d exclu	sion and discrimina	ition of 'lower castes', the
	(a) Untouchab	ility	(b)	Religious practic	es
	(c) Religion		(d)	Religious institut	ions
117.	Sustainable develo	pment seeks to	prevent		
	(a) Wastage of res	ources (b) Pollu	tion (c)	Loss of biodiversity	(d) All of these
118.	Of the earth's total	water resource	s, the fre	sh water easily acco	essible for our use is
	(a) More than 90	% (b) 50	1%	(c) 1% (d) L	ess than 1%

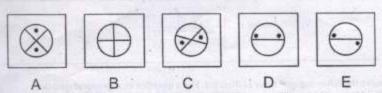
119.	These	e are made to p	rotect our natur	ral veget	ation a	nd wild life	
	(a)	National Par	k	(b)	Wildl	ife sanctuaries	
	(c)	Biosphere r	eserves	(d)	All of	fthese	
120.	The l	argest produce	r and exporter of	of mica	in the w	orld is	
	(a) A	ustralia	(b) India		(c) U	SA	. (d) Russia
121.	Reso	urces which ca	n be renewed o	r reprod	uced ar	e known as	
	(a)	Exhaustible	Resource		(b)	Non renewa	d source
	(c)	Renewal so	arce		(d)	Useful Reso	ource
122.	The the y		otection of Won	nen fron	Dome	stic violence*	finally became a law in
	(a) 2	003	(b) 2004		(c) 20	005	(d) 2006
123.	Righ	t to Informatio	n (RTI) act gua	rantees	people'	s right to	
	(a) K	now governm	ental proceeding	gs (b) G	et unive	ersal primary	education
	(c) S	peak out their	discontent freel	y (d) H	old me	etings and pub	olic gathering
124.	At th	e village level	, the judicial fur	nctions	are perf	ormed by the	
	(a) N	yaya Panchay	at (b) Gram Pa	nchayat	(c) D	istrict Judge	(d) Munsif
125.	Man	y of India's m	ost important m	ining an	d indus	trial centre are	located in
	(a)	Jamshedpur	(b) Rourkela	a (c) B	okaro	(d) All of the	nese

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

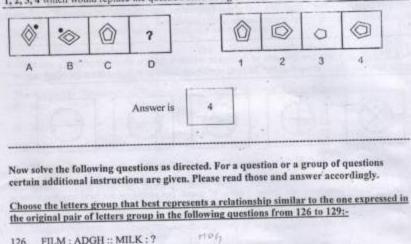
In the above series, there is a gap of ten numbers between the first number and the second consecutive number. To continue the series, the missing number would be 61. Therefore choice "B" is the correct answer to be written in the answer box.

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 alternative 1, 2, 3, 4 which would replace the question mark in figure 'D'.



Ì	26.	FILM : ADGH :: M	ILK:?		
		(a) ADGF	(b) HDGE	(c) HDGF	(d) HEGF
i	127.	EIGHTY : GIEYTH	I :: OUTPUT : ?		
		(a) TUOTUP	(b) TUOUTP	(c) UTOPTU	(d) UOTUPT
	128.	CAT is to DDY as I	BIG is to		
		(a) CLL	(b) CLM	(c) CML	(d) CEP
	129.	Bag is related to Lu	aggage in the same way	as Ship is related to	?
		(a) Coal	(b) Stock	(c) Cargo	(d) Weight

(a) Coal

Directions: Questions 130 and 131

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

3:243::5:_ 130.

(a) 425

(b) 465

(c) 546

(d) 3125

131. 6:24::5: ?

(a) 23

(b) 20 (c) 26

(d) 22

Find the missing character from among the given alternatives.

A2	C4	E6	
G3	15	7	
M5	09	Q14	

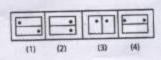
(a) J15

(b) K8

(c) K15

(d) L10

133. Choose the figure, which is different from others



(a) 1

(b) 2

(c) 3

(d) 4

134. 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

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

(a) Sunday

(b) Monday

(c) Saturday

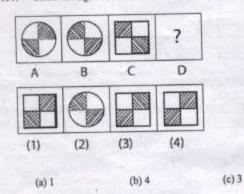
(d) Tuesday

137. 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

The state of the s			
 are	(a) 1	(4) 2	

- 138. 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
- 139. Select the figure from the answer set that would come in place of the question mark (?)



140 If Maya is the only daughter of Richa's grandmother's brother, how is Maya' daughter realtd to Richa?

(a) Niece (b) Cousin (c) Aunt (d) Mother

(d) 2

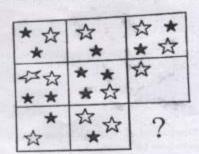
- 141 It is 3 O'clock in a watch and it is rotated by 10 degrees in a manner such that if the minute hand points towards the North-East, then hour hand will point towards which direction?
 - (a) South (b) South West (c) North West (d) South East

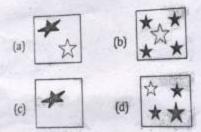
(a) 63

ATTENDED

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

143. Which square should replace the question mark?





- 144. 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
- (d) East
- 145. 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

146.		to Tarun, "I the daughter						
	(a) Son	(b) Brothe	r (c)	Cousin	(d)	Brothe	r-in-law	
	THE RESERVE AND ADDRESS OF THE PARTY OF THE	ly the following ow in question		ent of the	English al	phabet	and answe	er the
	FIMPO	WRNBEY	CKAVLDO	XUHQ	ISZT			
147.		he following part as there are b				tween	hem in the	above
	(a) Al	(b) EL	(c)	LS	(d)	МО		
		lid cube of ea th of side 2 cm					it is then cu	rt into
148.	How many	cubes are ther	e in all of a ed	ge 2 cm?				
	(a) 2	(b)	4	(c) 8		(d)	16	
149.	How many	cubes have no	face painted?					
	(a) 0	(b)	2	(c) 4		(d)	8	
150.	How many	cubes have on	aly one face pa	inted?				
	(a) 0	(b)	2	(c) 4		(d)	8	
						*		

ANSWER KEY (CLASS IX): 2020

SECTION A MATHEMATICS					SECTION C ERAL SCIENCE	SECTION D SOCIAL SCIENCE	
Q. No.		Q. No.		Q. No.		Q. No.	
1	d	51	С	76	d	101	b
2	С	52	b	77	d	102	а
3	С	53	а	78	а	103	С
4	a	54	С	79	d	104	а
5	a	55	а	80	b	105	С
6	C	56	С	81	С	106	b
7	С	57	а	82	d	107	b
8	b	58	а	83	d	108	b
9	a	59	а	84	b	109	b
10	С	60	С	85	b	110	а
11	C	61	b	86	a	111	а
12	а	62	b	87	a	112	b
13	d	63	а	88	C	113	а
14	а	64	b	89	С	114	b
15	b	65	С	90	C	115	b
16	b	66	а	91	d	116	а
17	С	67	d	92	a	117	d
18	a	68	а	93	a	118	С
19	b	69	С	94	b	119	d
20	d	70	C	95	b	120	b
21	С	71	С	96	a	121	C
22	d	72	b	97	b	122	С
23	а	73	b	98	b	123	а
24	b	74	а	99	a	124	а
25	d	75	b	100	b	125	d
26	а	17					
27	d	SE	CTION E INTELL	IGENCE			
28	C		TEST				
20	4	0					

SECT	TON E INTELLIGENCE TEST
Q No.	
126	С
127	а
128	а
129	С
130	d
131	b
132	b
133	d
134	d
135	d
136	а
137	Grace
138	b
139	а
140	b
141	d
142	b
143	d
144	а
145	b
146	b
147	d
148	C
149	а
150	а

c d b

С

b

d b

c b

b

d a

c

а

d

a

а

d

d

29 30 31

32

33 34

35 36

37 38

39 40

41

43

44

45 46

47

48

49 50

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