INDIA SAINIK SCHOOL ENTRANCE EXAMINATION: 2014 PAPER I - MATHEMATICS AND LANGUAGE ABILITY



- This question paper contains two parts and you have to answer all the questions in both the
- Part 'A' Mathematics has three sections containing 30 questions, Q. Nos 1 to 10 carry 2 marks 2. each, Q. Nos 11 to 20 carry 3 marks each and Q. Nos. 21 to 30 carry 5 marks each. 3.
- Part 'B' Language Ability Test contains 10 questions. Q. No. 1 and 2 carry 15 marks each and Q. Nos 5 and 8 carry 5 marks each. The remaining questions carry 10 marks each. In this part you can write your answer in any one of the chosen language only.

Write your answer with blue or black ink / ball pen. Do not use pencil. 5.

All Rough Work is to be done at space provided. 6.

There are total 27 pages in the question paper.

PART 'A' : MATHEMATICS SECTION - I

(Each question carries Two marks)

What is the LCM of two numbers if their HCF is 2 and the product is 112? 1. 2.

Write the Hindu-Arabic numerals for MDCL.

- 3. John had $2\frac{1}{2}$ cake. His friends ate $1\frac{2}{3}$ of the Cake. How much of the Cake is left?
- The dimensions of a rectangular field are 36 m and 24 m. Find the cost of fencing of the field if 4. wire is Rs 4.50 per meter. cost of

5. Find the average of first 9 prime numbers.

6. Simplify:

$$\frac{1}{5} \div \frac{1}{5} \circ \hat{r} \div \frac{1}{5}$$

A train covers 20 m in a second. Convert the speed of train in Km/h. 7. 8.

Form the greatest and smallest 4 digit numbers with digits 9,3,7 and 1.

Mayarik bought a ball for Rs 20. He sold it for Rs 30 and again bought it back for Rs 40. Again he 9. sold it Rs 50. Did he gain or lose? By how much did he gain or lose?

In the above figure if $\angle AOC = x$, $\angle COD = 2x$, $\angle BOD = 3x$. Then find each angle in degree.

SECTION - II (Each question carries Three marks)

- 11. Solve: f of (2+{2(11+4-2)}]-2
- 12. What percent is 200 gram of 4,5 kg?
- If the simple interest on Rs, 12800 for a period of 2 years is Rs. 3840, then find the rate of interest 13, per annum.
- If the circumference of a circular park is 88 m, then find the area of the park. 14.
- Arrange the following in ascending order: $\frac{3}{7}$, $\frac{4}{5}$, $\frac{7}{9}$, $\frac{1}{2}$ and $\frac{3}{5}$. 15.
- Mohan, a student of Class V secured 315 marks out of 450. Find marks in percentage. 16.

In the given figure, what is the value of angles BAC (X^0) and CAD(Y^0)? 17.

Sachin saved Rs 400 each in the first and second months, Rs 800 and Rs 600 in the third and 18. fourth months respectively. Find average monthly saving over the four months.

19. If average (mean) of the following marks obtained by students of Class - V is 35. 45 37 43 49 20 X Find unknown mark i.e.x.

20. Find: 1-2+3-4+5-6.

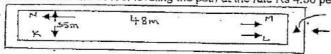
SECTION - III (Each question carries five marks)

- A rectangle and a square have the same perimeter 100 m. Find the side of the square if the rectangle has a breadth 2 m less than that of the square. Find breadth length and area of the rectangle.
- Rakesh completes one round of a running track in 8 minutes and Saroj completes it in 6 minutes. How long will it take for both to arrive again at their starting point together, if they start running at the same time and maintain their speed?
- Akshita's dad needed a loan of Rs. 20,000 to buy a new car. Mr. Das, the Bank Manager agreed to give him the loan at 3% per annum. If the loan was to be paid back after 5 years, what total amount must he return to the bank?

Find the value of 'x' for following figure if AB#CD.

A supermarket sells 19 oranges for Rs 114, 6 Apples for Rs 48, 22 Pomegranates for Rs 154 and 17 Mangoes for Rs 153. Which one of the fruits is the cheapest?

A rectangular grassy lawn measuring 48 m by 35 m is to be surrounded externally by a path, which is 2.5 m wide. Find the cost of leveling the path at the rate Rs 4.50 per Sq.m.



~=	1122			800 (#		
27.	One	number exceeds another numb	er by 36. If sum of both num	heris 48 Ei	nd the run	ohara"
28.	Find t	he smallest number, having fou	r different prime factors.	DC 13 40, 11	to the nun	ibers.
29.	What	sum of money will produce Rs.	143 interest in 3 2 years at	2 1 u sissala	1-1	٠,
30.	A bric	measures 20 om by to	1	Z x simple	interest?	
2 - 1	1_L	k measures 20 cm by 10 cm 7	cm. How many bricks will	be required:	for a wall ?	25 m long
2 III II	ign and	# m thick?	100 2018		1	0
	70	PART 'R' · I	ANGUAGE ABILITY			
1.	Write	15 sentences on any one of the	Follows ABILITY	1	(Max. Ma	
		My Favourite Sports person	rollowing robics:			(15 M)
		or obsta belself	•		\$ 050	
		Festivals of India	ejara a	·		
2.	Read	the following passage carefully	and answer the aventure to	-4.5 0		
5585						$x \cdot 5 = 15)$
They I	ive in far	nilles, build their own houses, a its work well. The very young	and have a king and a launce	ixe numan o	eing in ma	any ways.
do and	i it does	its work well. The very young	ants who have just come or	ut of their en	nas its ov	in work to
the nu	rses. W	nen they are older and their skin Some of the ants hunt for food	is are harder, they are read	to leave th	money ate	generally
kinds (of work.	Some of the ants hunt for food, nemselves alone. But the ants to	Most other kinds of insects	on about lo	oriest and	and but #
is aiwa	iys for th	nemselves alone. But the ants t	hink of the nest. They bring	in food for t	he gueen'	and other
worker				ii. 1000, 101 (ie directi	and other
34.7	(a)	How are ants similar to human	beings?	*		
	(b)	What jobs are done by the ver	y young ants?			
	(c)	When do these very young an	ts leave the nest?	5		
200	(a)	Which word in the passage of and warm".	onveys the meaning - "a o	over that ke	eps some	one sage
	(e)				. Tr	
3.		How are ants different from me	ost other kinds of insects?			
100000	coov at	a sentence of your own for each ny sentence from the given para	an underlined word given in	the followin	g passage	a. Do not
	Laught	er is indicative of iov. A man will	rgraph,		4 4 121	10
	be the	er is indicative of joy. A man who best tonic. A man who cannot	laugh foile to ettent fin d	s and wins f	tiends. Lat	ighter an
	himself	best tonic. A man who cannot of any pleasure of life.	laugh lalis to atract mends	s, loses his <u>r</u>	ealth and	deprives
	(a)	(c)	<i>(d)</i>	(0)		
4.		nge the jumbled words to form t	nearingful sealeaneas	(0)		
	(a)	newspapers /-very important /	tay to day life the aux thems		, (2)	x 5 = 10)
	(b)	others / at / you / not / laugh / s	bould	e pecome	X(W.P.S
	(c)	smiles / full of / tears / is / life /	and .		×	¥2
	(d)	a / standing / the / fox / was / c	lever / tree / under			3.6
	(e)	the / west / in / the / sets / sun	iorary addy affact	:	9	
5.	Give on	e word for the following:-			. 14	$\dot{x}5 = 5$
	(a)	A doctor who does operations			(1	x5=5)
	(b)	A bunch of flowers		•	31	*
	(c)	A person who works with mach	ines	** 1		*
	(d)	Happening once a year				4
	(e)	A house or shelter for a dog			•	
6.	Choose	the correct word / phrase from	the brackets and fill in the b	Janke-	/2 \	(5 = 10)
	•	is an area of the second	are president and in in the p	najina.	12 /	(5-10)
	(a)	He a new bicyc	le last week, (bought, have	bought, had	bought)	
	(p):	It since early me	orning, (rained, is raining, h	as been raini	na)	•
	(c)	He TV most eve	ening. (it watch, watches, is	(watching)		
	(d)	Ia lot of work to	day. (do, have done, had d	ione)		
	(e) He fast when the accident happened. (is driving, was driving, drove)					
7.	Use eac	th of the word in separate sente	ences of your own to show t	he difference	in the me	aning of
the wor	is of the	pairs given below:		2/	(2 x 5	5 = 10)
	(a)	Dairy	Diary			
	(b)	There	· Their			(0.0)
	(c)	Tail	Tale		ř	
	(d)	Peace	Piece	10.0		
	(e)	Weight	Wait		11 E	
8.	Write or	posite words for the following:		15		$\times 5 = 5$
		Win			1,,	24-31
		Refuse		2 8		
		Cruel	#1 #1			
		Ascending	e : .	Van 6	, j	\$**
		Give				
9.		each of the following as directe	d:	55/66	12 x	5 = 10)
	-	It is going to rain.	(Change into Interrogative	1	/ ×	- 101
			(Change into negative)			
74		He knows me well.	(Change verb to past tens		* /	*
	(d)	You are very smart.	(Change into Exclamatory			
	(e)	The cat killed the mouse.	(Change into Passive Voice	e) (ore) (zin	c)	
10.	Your eld	ler brother has sent you a birtho	ay gift. Write a letter of Tha	nks to him.	0.07%	(10 M)
		1		2.3		