# Mock Test by Doon Sainik School Dehradun Mathmatics & Science (ph. 8586858986) Clas's 9th

			PART 'A' :	MATHEMAT	l <u>cs</u>		
	Instru	ctions: Q1 to Q20 bear 2	marks each			(Total Marks (2x)	: 200) 20=40)
	Q1.	Find two rational numbers	between <sup>≞</sup> an	$d^{\frac{3}{2}}$ and repre	sent them in nur	nber line.	
	Q2.	Simplify $.3^{-5} \times 10^{-5} \times 1$ $5^{-7} \times 6^{-7}$	25	8 !			
	Q3.	Fifteen years from now M after five years from now.		vill be times i	nis present age.	What is Moha	in's age
	Q4.	Find the least number of th			han 100 and a r	erfect square.	31 A
•	Q5. Q6,	Find the value of $x^3 - \frac{1}{x^3}$ , g Resolve into factors:	$\frac{1}{x} = -32y - 4y^2$				· .
	Q7.	Find the cube root of 91125	5.	1. (* <sup>1</sup>	1 · · · · · · · · · · · · · · · · · · ·		
•	Q8.	There are certain number twice the number of rows. rows in the garden is	of row of tre	es in a garde r of trees in ti	n. The number ne garden is 12	of trees in eac 50, then the nu	h row is imber of
	Q9.	The marked price of an iter it is sold for Rs.1050.	n is Rs 1200	. Find the disc	count percentag	e allowed on th	e item jf
	Q10.	A man borrowed Rs 1600	0 at 10% pe	r annum inter	est compounde	d half yearly. I	Find the
	~~	amount repayable after one					
	Q11. Q12.	The four angles of a quadri What must be added to $4x^2$				easures of the a	ingles.
	Q13.	$(129^8)^9$ is equal to	- 174 - 11	o make it a wi	iole square.	. :	
	•	(a) 129 <sup>17</sup> (b)	129 <sup>2</sup>	: (c)	12972	(d) 129 <sup>0</sup>	
	Q14. Q15: Q16. Q17. Q18.	The mean of the first ten na (a) 5.10 (b) Divide a sum of Rs 10 betw The sum of two numbers is If 56 men can do a piece of	tural number 5.5 veen two pers 45 and their	s is (c) cons A and à s ratio is 7;8: Fi	5 (d) such that A gets nd the numbers	6.2 Rs 1 more than	n B:
	Q10,	A		D			
		<u></u>			$b^{\star}-c^{\star}$	2ab +	
		в		320812 -1 × 4/7 2	- 2x		÷
÷.		•	1. 1	. <u>G</u> .	tess esta		
		In the above figure, ABCD i					if .
•	Q19,	measure of angle DCX = 13 A man loses 20% of his mo How much money did he or	ney. After sp	ending 25% o		he has Rs 480	.00 left.
-	Q20.*	By selling a towel for Rs. 12 towel to gain 4%.					ll the
	Instruc	ctions: Q 21 to Q 40 bear	3 marks ea	ch .		(3x	20=60)
e R		The digits of a two digit nu	imber are su	ich that one i		er. When the d	gits are
	Q23.	interchanged, the new num number. Solve $\frac{2x-1}{x-1} - \frac{3x+2}{x-1} = \frac{1}{x-1}$		ns greater th	an uie oliginal i	iumber by 27. I	. i
	. '+	6 3 . 3	•••••				

 $X \left(-\frac{1}{3}\right)^{5}$ ]

Evaluate

Q24. If  $a^2 + \frac{1}{a^2} = 27$ , then find the value of  $a - \frac{1}{a}$ 

Q25. A well is dug 20m deep and has a diameter of 7m. The earth which is so dug out is spread evenly on a rectangular plot 22m long and 14 m broad. What is the height of the platform formed?

Q26. Find the area in sq cm of a rhombus whose side is 17cm and one of its diagonals is 30cm. Q27. The marks obtained by 40 students in Mathematics are given below:

69, 59, 49, 39, 84, 68,77, 48, 47, 57, 46, 41,44, 67, 57, 45, 34, 36, 87, 89, 65, 41, 84, 78, 52, 49, 75, 37, 38, 42, 73, 31, 34, 37, 56, 59, 64, 85, 81 and 62.

Based on the above data, the frequency of the class 60-70 is \_

Q28. An article with a marked price of Rs 600 is available at a discount of 18%. Find the discount given and also the price at which the article is available for sale.

Q29. If  $5^{3x+4} = 25 \times 5^{4x-1}$  find the value of x.

Q30. Walking at 4 km an hour, a person reaches his office 5 minutes late. If he walks at 5 km an hour, he will be 4 minutes too early. Then the distance of his office from his residence is

Q31. The internal measures of a cuboidal room are 12m x 8m x 4m. Find the total cost of whitewashing all four walls of the room, if the cost of whitewashing is Rs 5 per square metre. What will be the cost of whitewashing if the ceiling of the room is also whitewashed?

Q32. What least number must be subtracted from 2200 so as to get a perfect square?

Q33. A garrison of 2000 men has a provision for 15 weeks. How many men must leave so that the same provision my last for 20 weeks?

- Q34. Multiply  $(a^2 + b^2 + c^2 ab bc ca)$  by (a + b + c)
- Q35. Construct a histogram for the frequency distribution below:

Class Interval	20-30	30-40	40-50	50-60	60-70 ·
Frequency	5	. 8	3	6	7
	i6.0.)	·		*	
Q36. Solve $\left(\frac{2}{2}\right)$		·			
	$- X \left(\frac{16}{2r}\right)$			•	•

Q37. Pipe A can fill a tank in 14 minutes, pipe B can fill it in 7 minutes and pipe C can empty the full tank in 28 minutes. If all of them are opened simultaneously, find the time taken to fill the empty tank.

Q38. Four pipes 5 cm each in diameter are to be replaced by a single pipe discharging the same quantity of water. If the speed of water remains same in both the case, find the diameter of the single pipe.

Q39. Reduce the following expression into lowest term.  $a^2 - b^2 - 2bc - c^2$ 

 $\frac{a^2 - b^2 - 2bc - c^2}{a^2 + 2ab + b^2 - c^2}$ 

Q40. Simplify:

 $\frac{3x^2y^2}{2x^{-1} \times 4yx^2}$ 

## Instructions: Q41 to Q 50 bear 10 marks each

## (10x10=100)

- Q41. A village, having a population of 4000, requires 150 litres of water per head per day. It has a tank which is 20 m long, 15m broad and 6 m high. For how many days will the water of this tank last? Given 1 m<sup>3</sup> = 1000 litres.
- Q42.. The sum of the ages of a father and his son is 50 years 5 years ago father's age was 7 times the son's age. Find their present ages.
- Q43. (a) Solve the linear equation x 0.3 + 0.05x = 2 1 4x
- (b) The sum of the digits of a certain two digits number is 7. Reversing its digits increases the number by 9. What is the number?
- Q44. Construct a trapezium ABCD in which AB & CD are parallel, AB=6cm, DC = 3.5cm.  $\angle A = 55^{\circ}$ , AD = 3.5cm.
- Q45. Parikshit made a cuboid of plasticine having dimensions 2cm, 5cm, 5cm. What is the minimum number of such cuboid required to make a cube?
- Q46. A horse is tethered in a corner of a rectangular plot 40m by 36m with a rope 14m long. Find the area over which it can graze.

`. Q47.

The pie chart below shows how Mr. Davis distributes his monthly income into different

-		household expenses.
	-	15% Rent
		20% Grocery
		Eating out
		Entertainment
		10% 25% (*:\x+\x+\x+
		T. T. S. C. E.
		(a) In which of the above categories does Mr. Davis spend the greatest portion of his
		income? (i) Grocery (ii) Entertainment (iii) Eating out (iv) Rent
		(b)What portion of the monthly income does Mr. Davis spend on entertainment?(i)10%(ii)20%(iii)30%(iv)25%
		(c) What fraction of the monthly income does Mr. Davis spend on groceries? (i) $\frac{1}{4}$ (ii) $\frac{1}{2}$ (iii) $\frac{1}{10}$ , (iv) $\frac{3}{4}$
		<ul> <li>(d) If Mr. Davis earns Rs 2,000/- per month, how much does he spend on groceries?</li> <li>(i) Rs 1,000 (ii) Rs 250 (iii) Rs 500 (iv) Rs 700</li> </ul>
	· .	<ul> <li>(e) What is the ratio of expenditure between entertainment and grocery?</li> <li>(i) 3:4 (ii) 4:5 (iii) 3:5 (iv) none of these</li> </ul>
	Q48.	A man bought a TV and washing machine for Rs 8000 each. He then sold the TV at a loss of 4% and the washing machine at a profit of Rs 8%. Find the overall gain or loss percent in the whole transaction.
	Q49.	Factorise the following: (a) $m^2 + n - mn - m$ (b) $x^4 + 12x^2 + 64$
	Q50.	(a) Solve $(4x^2 + 7x^3y^2) - (-6x^2 - 7x^3y^2 - 4x) - (10x + 9x^2)$ (b) Using the identity $(x+a)(x+b) = x^2 + (a+b)x + ab$ Solve 107 x 108
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		PART 'B' : SCIENCE
		Part B contains 37 questions, bearing 75 marks. Question No. 1 to 15 are multiple choice ns carrying 1 mark each, Question No 16 to 25 carry 2 marks each, Question No. 26 to 35
	carry 2	marks each, Question No. 36 & 37 carry 5 marks each.
	For Q1	to Q15, do as directed · · · · · · · · · · · · · · · · · · ·
	Fill In f	he blanks.
	Q1. Q2. Q3. Q4. Q5.	Blue green algae fix directly from air to enhance fertility of soil. Species found only in a particular area is known as Synthetic fibres are synthesized from raw material called Phosphorus is a very non metal. Process of separation of different constituents from petroleum is called
	Select	the correct Answer.
	Q6.	The most common carrier of communicable diseases is (a) Ant (b) Housefly (c) Dragonfly (d) Spider
	Q7.	Which of the following can be beaten into thin sheets (a) Zinc (b) Phosphorus (c) Sulphur (d) Oxygen
	Q8,	Unwanted sound is called as (a) Music (b) Pitch (c) Noise (d) Shrill
	Q9.	The process of depositing a layer of any desired metal on another material by means electricity is called. (a) Mixing (b) Electrolyting (c) Electroding (d) Electroplating

Which of the following is NOT a planet of the sun? Q10. Te . 191 (a) Sirius (b) Mercury (C) Saturn (d) Earth Mark 'T' if the statement is True and 'F if it is False.' Q11. Generally, non metals react with acids. Q12. Coke is almost pure form of carbon. Q13. Kerosene is not a fossil fuel. Q14. Unicellular organisms have one celled body. Q15. An embryo is made up of a single cell. Write answers within the space provided under the questions:-(2x10=20)Does pure water conduct electricity? If not what can we do to make it conductive. Q16. Q17. Explain why gliding friction is less than static friction. A pendulum oscillates 40 times in 4 seconds, Find its time period and frequency. Q18. Q19. Define (a) . Force of Gravity ..... (b) Pressure ..... Q20. Define adolescence Give two differences between Zygote and foetus Q21. . . Nylon is used for making parachutes, car seat belts and ropes for rock climbing. Why? Q22. Q23. List condition under which combustion can take place. Q24. List two advantages of using CNG & LPG as fuels. What is malleability? Give two examples of malleable metals. Q25. . . . . . . . Write answers within the space provided under the questions;-(3x10=30)What is Marble Cancer? Write the air pollutants that are affecting the beauty of Tajmahal .-. Q26. Why is the distance between stars is is expressed in light years? What do you understand by Q27. the statement that a star is eight light away from the earth? Q28. Explain why plastic containers are favoured for storing food? Q29. .What are the major groups of micro organisms? Q30, What is constellation? Name any two constellation. Explain the reason why water is not used to control fires involving electrical equipment? Q31. Q32. Why Sodium and Potassium are stored in kerosene? Q33. Why are children / infants given vaccination? Q34. Briefly explain types of combustion. Q35. Draw labeled diagrams of plant cell and animal cell Q36. Write short notes on (a)Cytoplasm. (b) Nucleus of a Cell Q37. Briefly answer the following questions. Why porters place a round piece of cloth on their head when they have to carry a heavy load? (3 marks) (b) .: An inflated balloon was pressed against a wall after it had been rubbed with a piece of synthetic cloth. It was found that, the balloon sticks to the walls. What force might be responsible for attraction between the balloon and the wall? (2 marks) (C)

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### ALL INDIA SAINIK SCHOOL ENTRANCE EXAMINATION : 2014

PAPER II – LANGUAGE & SOCIAL STUDIES

CLASS - IX

Time: 2 hrs Notes:-

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#### Max Marks: 175

(a). This paper contains two parts – Part 'A' is language and Part 'B' is Social Studies. You are required to attempt ALL questions in each part.

(b). Part 'A' - (Language) bearing 100 marks contains 10 questions. Marks are indicated against each question.

(c). Part 'B' – (Social Studies) bearing 75 marks contains 5 questions. Marks are indicated against each question.

(d). Write your answers only in the space provided in the question paper itself.

(e) Rough work is to be done at space provided only.

(f) Write all your answers in Blue or Black ink only. Do not use pencil.

## PART 'A' : LANGUAGE : ENGLISH

### Max Marks : 100

(3x5=15)

Q1. Read the following passage and answer the questions that follow.

The beauties of nature are the greatest gifts of God to man. How unlucky are they who cannot enjoy and appreciate nature. Nature is all around us in varied aspects and shapes. We have the green charming hills, snow – capped mountains, and the rising and setting sun in its varied and unforgettable glory. The dew drops on the blades of grass look like iridescent pearls. The silvery moon and the twinkling stars bedeck the sky. The roaring waves in the vast ocean and the lakes which look like sheets of water add to the glorious treasure. Even the violent aspects of nature like the thundering clouds with dazzling flashes fighting, the torrential rain, and the all – powerful storm are some of the aspects of nature which Tennyson termed as nature "red in tooth and claw". But they have their own charms which captivate man and even inspire in his heart.

One can enjoy the beauties of nature in an abundant measure at a hill station. The floating clouds, the dancing springs, the winding rivulets, the all pervading multicolour flowers, emitting sweet, soothing smell, the trees standing like sentinels with birds singing sweet harmonious songs in their branches, the cool breeze, the humming bees, the delicious fruits – all cater to human senses. Beauty lies in the eyes of the beholder on the earth, in the air, in the sky and in the ocean. His heart leaps up when he beholds a rainbow in the sky.

Nature teaches man the lesson of peace, innocence, purity, love, harmony, simplicity, hope and faith in the glory of God. Wordsworth believes that nature is the greatest store – house of wisdom, apart from being a source of eternal happiness:

- (a) What is termed by Tennyson as "Red in tooth and Claw"?
- (b) What are the captivating beauties of Hills?
- (c) What lessons do nature teach humans?
- (d) Write synonyms for the following words which means in above passage:
  - (i) Dazzling
  - (ii) Capped
  - (iii) Soothing
- (e) Pick out words opposite to following words from the passage:
  - (i) Calm
  - (ii) Faded
  - (iii) Limited
- Q2. Write a para in about 100 words on ONE of the following given topics. (10)
  - (a) Hazards of Polythene
    - (b) Role of Media
- Q3. Write a letter to the District Collector inviting him for the children's day function at your school. (Limit your answer to 150 words) (15)
- Q4. Fill in the blanks with suitable articles / prepositions / adverbs in the brackets. (2 x 5 = 10)
  - (a) Who has kept ..... eggs in fruit basket. (a / an / the)
  - (b) We have turned ..... better ways of living. (towards / about / back)
  - (c) It was I who fixed ..... your train journey. (at / up / un / under)
  - (d) In the busy road many were passing ...... (out / by / off / on)
  - (e) Indian food appeals ..... anybody's taste. (after / to / into / in)
- Q5. Change into passive voice:
  - (a) Which team won the final match last year?
  - (b) We have sold all the tickets of the show.
  - (c) One should do one's duty
  - (d) We do not accept ATM cards.
  - (e) We will sell all kinds of clothes here.

 $(2 \times 5 = 10)$ 

Q6.	Follow	ving sentences are INCORRECT. Find out the error and rewrite the sente	ences correctly.
		(2 x 5	5 = 10)
	(a)	He gave me some advices.	
	(b)	Will you tell me the reason of an earthquake?	
	(C)	One should work hard if he wants to pass the exam.	
	(d)	All but I were present in class.	
	(e)	The flower pot is placed in the centre.	
Q7.	Write	one word for the following group of words.	(1x 5 = 5)
	(a)	One who is all powerful	
	(b)	A study of body	
	(c)	An animal who preys on other animal	
	(d)	That through which light cannot pass	
	(e)	One who looks at the dark side of things	
Q8.		e meaningful sentence by using each word.	(2x 5 = 10)
	(a)	Ode	
		Owed	
	(b)	Ceiling	
		Sealing	
	(c)	Mist	
		Missed	
	(d)	Chord	
		Cord	
	(e)	Cite	
		Sight	
~~	~		(4.5.5)
Q9.		ge the following DIRECT sentence into INDIRECT sentence.	(1x 5 = 5)
	(a)	Ruby said, "Raj, how is your knee today?"	
	(b)	Raman said, "Let us decide on the place."	
	(c)	She said, "Wow! How lovely the house is."	
	(d)	I said, "Did you call at my house last night?"	
	(e)	He said, "Please lend me your umbrella".	
Q10.	Look	at the picture critically, think of a suitable theme and write a story. (in app	nov 100 words)
Gero.	LOOK	at the plottere endoury, think of a bulkable theme and time a clory. (In app	(10)
		PART 'B' : SOCIAL STUDIES	(,
			(Max Marks : 75)
Q1.	State	TRUE or FALSE	(1x 15 = 5)
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- (j) The third research centre of India in Antarctica is ..... (k)
  - ..... is the latest established High Court in India.
- (I) ..... is often referred to as 'Manchester of India".
- The President of the constituent assembly was (m) (n)
  - allowed the company to use the vast revenue resources of Bengal.
- (0) ..... was the capital of British india before Delhi.

Q3. Expand the abbreviations.

(1x 10 = 10)

- (a) RTI (b) SAARC
- (c) ISRO
- (d) NDA
- BARC (e) (f) NATO
- (g) UNO
- (h) IPL
- (i) TISCO
- (j) UNICEF

#### Q4. Match the following columns

- (a) Rocks and minerals (i) Bangalore (b) Tiger of Mysore productive use of land (ii) Kunwar Singh (c) (iii) a waterborne disease Humus (d) (iv) Bihar (e) William Jones (v) a biotic resources The arms act (f) South Africa (vi) Simon commission (g) (vii) a linguist (h) Cholera (viii) 1878 **Diamond mines** (i) (ix) 1927 Silicon plateau (j) (x) Tipu sultan Write short notes on ANY FIVE of the following topics (limit 50 words). Q5.
  - Women Empowerment (a)
  - (b) Revolt of 1857.
  - Methods of Soil Conservation. (c)
  - (d) Green Earth
  - (e) **Cultural Diversity**
  - Conventional and non conventional sources of energy. (f)

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Panchayati Raj (g)

Battle of Plassey (h)

(1x 10 = 10)

(5x 5 = 25)