ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION: 2020

PAPER- MATHEMATICS, GK, LANGUAGE AND INTELLIGENCE TEST

CLASS- VI

TIME: 2 hrs 30 minutes

Max.Marks: 300

Instructions

- This question paper contains FOUR sections and you have to answer all questions in the OMR answer sheet section "A" Mathematics contains 50 questions of 3 marks each, Section "B" GK, Section "C" Language and "D" Intelligence contains 25 questions of 2 marks each respectively. Section C is language specific and is to be attempted in the chosen language.
- 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. Be careful and ensure no unnecessary marks on the OMR answer sheet / fold or attempt to deface the OMR answer sheet, otherwise it will not be evaluated.
- 4. Rough work must be done on the additional sheet only and NOT on OMR answer sheet.
- 5. There are total 32 pages in the question paper.

Section – A MATHEMATICS

- 1. Find the difference between the greatest and the least number that can be written using the digits 6, 2, 7, 4, 3 each only once.
 - a) 52965 b) 53965 c) 52956 d) 52659

2.Estimate the product 5980×428 by rounding off each number to the nearest hundreds

a) 236000 b) 240000 c) 2400000 d) 3000000

3. Three numbers are in the ratio of 3:4:5 and their L.C.M is 2400. Their H.C.F. is

- a) 120 b) 60
- c) 80 d) 40

4.Leela reads 25 pages of a book containing 100 pages. Lalita read 2/5 of the same book. Who read less and by how much?

a) Leela, 15 pages	b) Lalita, 15 pages
5. $\left(\frac{\sqrt{625}}{\sqrt{14}} \times \frac{14}{\sqrt{122}} \times \frac{11}{\sqrt{122}}\right)$ is equal to?	d) Laiita, 20 pages
a) 5	b) 6
c) 8	d) 11

6.Naveen bought 3m 20cm cloth for his shirt and 2m 5cm cloth for his trousers. Find the total length of cloth bought by him.

a)	5.7m	b)	5.25m
c)	4.25m	d)	5.00m

7. The least common multiple of 3,4 and 9 is?

a)	36	b) 1	12
c)	27	d) 4	15

8.An aeroplane covers a certain distance at a speed of 240km/h in 5 hours. To cover the same distance in $1\frac{2}{3}$ hours, it must travel at a speed of?

a)	300 km/h	b)	360 km/h
c)	600 km/h	d)	720 km/h

9.'A' can lay railway track between two given stations in 16 days and 'B' can do the same job in 12 days. With the help of 'C', they did the job in 4 days only. Then 'C' alone can do the job in how many days?

a)	$9\frac{1}{5}$ days	b)	$9\frac{2}{5}$ days
c)	$9\frac{3}{5}$ days	d)	$9\frac{4}{5}$ days

10. In the figure, find the ratio of number of triangles to the number of circles inside the rectangle and number of squares to all the figures inside the rectangle

a)	$\frac{3}{2'}\frac{2}{7}$	b) $\frac{3}{7}, \frac{2}{7}$
c)	$\frac{2}{7}, \frac{2}{7}$	d) 3,2

11.Ram, Rahul and Rohit shared a bag of marbles. The bag contained 272 marbles. How many marbles were left over after the friends shared them equally?

- a) 90 b) 91 d) 2
- c) 6
- 12.Cost of 4 dozens of bananas is rs.60. How many bananas can be purchased for rs 12.50?
 - a) 10 b) 15 c) 12 d) 18

13. The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weight of all the boys in the class.

a) 47.55 kg b) 48 kg c) 48.55 kg d) 49.25 kg

14. Manju runs around a rectangular park of length 35m and breadth 20m. Meenu runs around a square park of side 30m. Who covers less distance and by how much, if Meenu takes rounds and Manju takes 3 rounds completely.

a) Meenu, 150m b) Manju, 120m c) Manju, 150m d) Menu, 120m

15.A photo frame is in the shape of a quadrilateral with one diagonal longer than the other. Which of the following is the possible shape of the photo frame?

- a) Square b) Rectangle
- d) None of these c) Rhombus

16. The product of a non-zero whole number and its successor is always:

a) Divisible by 3 b) An odd number c) A prime minister d) An even number

17.A sum fetched a total simple interest of Rs. 4016.25 at the rate of 9% in 5 years. What is the sum?

a)	Rs.4462	b)	Rs.8032
c)	Rs.8900	d)	Rs.8925

18. Find the angle measure between the hands of the clock when time shows 6 pm.

a)	90°	b)	45°
c)	180°	d)	270°

19. Find the volume of a cube of side 6cm.

a)	216cm ³	b)	36cm ³
c)	72cm ³	d)	108cm ³

20. Write Roman numeral CDXXXIX in Arabic numeral

a)	439	b)	449
c)	529	d)	539

21. The product of two numbers is 1296. If one number is 16 times the other, find the smaller number

a)	12	b)	16
c)	4	d)	9

22. The measure of an angle is $\frac{3}{4}$ of 60°. What is the measure of its complementary angle?

		-	
a)	30°	b)	60°
c)	45°	d)	20°

23. Subtract the difference of 8.362 and 7.942 from the sum of 5.675 and 1.327?

a)	6.582	b)	4.348
c)	3.982	d)	4.384

24. Find the perimeter of the figure

u the permeter of the light		
	lcm 4 cm ∏w ∈ llcm	
a) 51cm	4 cm 8 5 5 3 cm	
b) 52cm		
c) 53cm		31
d) 54cm		

25. How much time will it take for an amount of rs.450 to yield rs 81 as interest at 4.5% per annum of simple interest?

a)	3 years	b)	4 years
c)	6 years	d)	5 years

26. In a triangle, if the second angle is 2 times the first angle and the third angle is 3 times the first angle, find the angles of the triangle.

a)	30°, 60°, 90°	b)	15°, 30°, 4	45°
c)	45°, 45°, 90°	d)	20°, 40°, 2	120ʻ

27. The area of a circle is 616 cm². Find its diameter.

a)	28 cm	b) 14 cm
c)	56 cm	d) 32 cm

28. Find the quotient when 53.016 is divided by 2	24		
a) 2.29	b) 2.209		
c) 2.292	d) 2.029		
29. A rectangular path of 60 m length and 3m wid	dth is covered by square tiles of side 25		
cm. find the number of tiles used to make this	s path?		
a) 2250	b) 1440		
c) 2880	d) 1200		
30. What is the value of A in 475 ÷ 64% of 950= 9	00+A		
a) 183	b) 233		
c) 1983	d) None of the above		
31. What will be HCF of 216, 288 and 720?			
a) 12	b) 24		
c) 84	d) 72		
32. Solve (106×106-94×94) =?			
a) 2400	b) 2000		
c) 1904	d) 1906		
33.If 2/3 of 70% of 600 when subtracted from a n	number is 320, what is the number?		
a) 300	b) 600		
c) 720	d) 500		
34.A mobile phone is sold for Rs.1650 after purch percentage of profit?	nasing it for Rs. 1500. What is the		
a) 10	b) 15		
c) 20	d) 16		

35. In the first test of mathematics a student gets 18 marks out of 25. In the second test of same weightage he got 22 marks. What percentage of marks did he get more in the second test?

a)	4%	b)	8%
c)	16%	d)	None of the above

36. Average of 20 results is 18. If 3 is subtracted from each result, then what will be the new average?

)	15
)

c)	16	d) 17
37. Solve	$\frac{7/3 \times 2/3 \div 3/5}{2+1\ 2/3}$	
a)	<u>99</u> 70	b) 70 99
c)	<u>33</u> 30	d) $\frac{70}{27}$
38.If 90.0 a) c)	675 is divided by 15 , then quotient is: 6.0045 60.0450	b) 6.0450 d) 0.6045
39. How r a) c)	many seconds are there in 24 hours? 30 3600	b) 60 d) 86400
40. Value a) c)	e of √1089 ÷ 121 3 33	b) 13 d) 53
41.If angle	es A, B and C in a triangle ABC are 3x, 5x	and 8x+4 respe

41.If angles A, B and C in a triangle ABC are 3x, 5x and 8x+4 respectively, then find all the three angles.

a)	33,55,92	b)	70,75,35
c)	90,75,15	d)	90,95,100

42. What are Prime factors of 37800?

a)	2×2×3×3×5×5×7×7	b)	2×2×2×3×3×3×5×5×7
c)	8×27×25×7	d)	2×4×25×27×7

43. Convert into decimals (10% of 3.75+15% of 7025)

a)	1.4625	b) 14.625
c)	1.4652	d) 14.652

44. Which sequence correctly matches these angles with their measures



45.I am a prime number. If you subtract 2 from me, I become divisible by 7.

a)	29	b)	19
c)	31	d)	23

For questions from 46 to 50 the following table has to be consulted.

Name of the city	Temperature at 3 am (C°)	Temperature at 3 pm (C°)
Chennai	21.1	29.9
Mumbai	19.0	35.1
Thiruvananthapuram	21.6	33.5
Kolkata	13.1	26.5
Bhopal	9.8	25.9
Srinagar	1.3	8.1
Guwahati	12.8	24.8
Jaipur	10.2	23.2

46. Which place had the highest temperature at 3 am?

- a) Chennai
- c) Srinagar

- b) Thiruvananthapuram
- d) Jaipur

47. Which place is the coolest at 3 pm?

- a) Kolkata
- c) Mumbai

- b) Srinagar
- d)

48. How much higher is the temperature in Mumbai from that of Srinagar at 3 pm?

a)	8.1	b)	35.1
c)	27	d)	29

49. How many degrees will the temperature at 3 am need to rise for it to reach 40 degree Celsius in Thiruvananthapuram

a) 6.5	b) 18.4
c) 21.6	d) 33.5

50. How much lower is the temperature of Kolkata from that in Chennai at both times (3 AM and 3 PM)?

a)	8° and 3.3°	b) 3°and8°
c)	8°and8°	d) 3.3° and 3.3°

SECTION- B GENERAL KNOWLEDGE

51.Black soil is also known as?

a)	Regur soil	b)	Red soil
c)	Laterite soil	d)	Mountain soil

52. P.V Sindhu is associated with which sports?

- b) Cricket a) Badminton
- d) Hockey c) Football

53. The Space Progranne of Govt. of India is looked after by

- a) ISBT b) NTRO d) ISRO
- c) NABARD

54. Bhakranangal Project is built on the river?

- a) Sutlej
- c) Godavari

- b) Mahanadi
- d) Cauvery
- 55. Who is known as an 'Iron Man of India'?
 - a) Jawahar Lal Nehru b) Mahatama Gandhi
 - c) Sardar Vallabhai Patel
- 56. The longest river in South India is?
 - a) Mahanadi
 - c) Saraaswathi

d) Subhash Chandra Bose

- b) Indus
- d) Godavari

57. Which planet is known as a morning star as well as evening star?

- a) Mars
- c) Mercury
- 58. Which article of constitution provides Indian Citizen 'Right to Equality'?
 - a) Article 12
 - c) Article 17 d) Article 14

59. 'Narora' nuclear power plant is located in the state of?

- a) Maharashtra
- c) Uttar Pradesh d) West Bengal

60. Which of the following diseases spreads through contaminated food and water?

- a) Malaria
- c) Dengue d) Filaria
- 61. Which is biggest dessert in the world?
 - a) Kalhari Dessert
 - c) Sahara Dessert d) Gobi Dessert

62. Manas national park is located in the state of?

- a) Assam
- c) Himachal Pradesh
- 63. Which of these grows from the roots?
 - a) Potato
 - c) Carrot
- 64. Sahyadris is also known as?
 - a) Aravali
 - c) Himadri
- 65. The gas filled in a weather balloons is
 - a) Neon
 - c) Argon
- 66. Growing children need more of
 - a) Carbohydrates
 - c) Protein

- b) Arunachal Pradesh
- d) Andhra Prasdesh

b) Atkama Dessert

- b) Ginger
- d) Sweet potato
- b) Western Ghats
- d) Eastern Ghats
- b) Helium
- d) Oxygen
- b) Vitamins
- d) Fats

b) Article 13

b) Venus

d) Earth

- b) Tamil Nadu

b) Cholera

- 67. Which gas is dissolved under pressure in soft drinks?
 - a) Oxygen
 - c) Nitrogen

b) Carbon dioxide

b) Group Captain

d) Hydrogen

68. Who is the lowest ranked Air Force among these?

- a) Wing Commander
- c) Flying Officer d) Flight Lieutenant
- 69. Which of the following is a national festival?
 - a) Baisakhi
 - c) Pongal

70.Dr. Amartya Sen won Nobel Prize in which field?

- a) Economics
- c) Chemistry d) Literature
- 71. The imaginary line drawn half way between North Pole and South Pole is called
 - a) Tropic of Cancer
 - c) Arctic Circle
- 72. The largest island in the world is
 - a) Australia
 - c) Greenland
- 73. The coldest place in the world, lying in the south frigid zone is
 - a) Greenland b) Antartica
 - c) Australia
- 74. Who invented telephone in 1876?
 - a) Alexander Graham Bell b) James Hickey
 - c) Guglielmio Macron d) Logle Beird

75. 'Ghoomar' is a popular folk dance of which of the following states?

- a) Rajasthan
- c) Orissa

- b) Madhya Pardesh
- d) Uttar pardesh

SECTION-C LANGUAGE

Read the following passage and answer the questions (ques.76 to 80)

- b) Equator
- d) Antartic Circle
- b) New Zealand

- d) Mozambique

- d) New Zealand

b) Peace

d) Chhath puja

b) Republic day

Midas, the king, was a greedy person. He loved gold more than anything in the world. He had lots of wealth but he was never really a happy person.

One day God Bacchus came to Midas. Midas had once helped god Bacchus and in return Bacchus offered him a gift. "What shall I give you to make you happy," the God asked him. Midas thought for a while and then said, "Please give me the power to turn everything I touch into gold." Bacchus laughed and said, "Your wish is granted as soon as the Sun rises tomorrow, you will have the golden touch."

The next morning Midas woke up, and he had his golden touch. He touched his bed, the chairs, doors, windows and all became gold.

Suddenly, he felt very hungry. He sat at the table but as soon as the food touched his lips, it turned into gold. So did the water. It seemed he could no longer eat or drink. After some time, his daughter came to him. When put his hand on her, she became a gold statue. In the end, Midas became very sad and prayed God Bacchus to take away the golden touch from him.

76. What kind of man was Midas?

- a) A greedy person
- b) A great miser
- c) A brave man
- d) Wise man II.

77. Who came to Midas one day?

- a) God Jesus
- b) God Bacchus
- c) God Zeus
- d) God

78. Why did Bacchus offer him a gift?

- a) because he had helped the God once
- b) because he had pleased Bacchus 1
- c) because he had annoyed Bacchus
- d) because he cared for Bacchus
- 79. What was Midas' wish?
 - a) To become rich
 - b) to turn anything into gold
 - c) to turn his daughter a golden doll
 - d) to become powerful

80. Who turned into gold statue when Midas touched?

- a) Daughter
- b) Son
- c) Uncle
- d) Aunt

Rearrange the following words/ phrases to make meaningful sentences. Choose the correct sequence.

b) Cdab
d) bcda

82. gold (a)/ is not (b)/glitters (c)/all that(d)	
a) Abcd	b)

a) Abcdb) Cdbac) Dabcd) dcba

83.playing(a)/in the(b)/ park(c)/children are(d)

a) abcd b) bcda c) dabc d) cdab

Fill in the blanks with appropriate option.

84. Either work hard	Igive up studies.	
a) nor	b)	or
c) and	d)	but
85. He is afraid	dog.	
a) On	b)	Of
c) In	d)	by
86. He te	ea every morning.	
a) Drinks	b)	Is drinking
c) Drank	d)	Drunk
87.The child has bee	en missing yeste	rday.
a) For	b)	Of

c) By

d) since

b) Met

d) Is meeting

Do as directed:

88.John is my	brother (find out the correct adjective)
a) Elder	b) Bigger
c) Old	d) Young

89. French is easy language. (select correct article)

- a) A b) An
 - c) The d) None

90. Ashok ______ him yesterday. (write the correct form of the verb)

- a) Meet
 - c) Will meet

Choose the most appropriate option

91. Which word means nearly the same as 'sufficient'?

- a) Infinite b) Adequate
- c) Merry d) Surplus

92. Which word is the opposite if 'simple'?

a) Complex b) Easy c) Obey d) Show

93.A list of books in library

- a) Monologue b) Dialogue
- c) Catalogue d) Diary

94. Find the feminine gender of 'horse'.

- a) Mare b) Doe
- d) Ram c) Ewe

95. Choose the word which means the opposite of 'rise'.

- a) Fall b) Smooth
- d) Rash c) Pride
- 96. Choose the word which means same as 'grief'.

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Military Sci	100I, KIMC
a) Cheerrui	d) Injury
97 One who does not believe in existence o	f God?
a) Theist	h) Pacifist
c) Ascetic	d) Atheist
98.The match has been postponed conjunction)	it has been raining outside.(supply
a) So	b) Because
c) Therefore	d) And
99.This is the boy parents have d	ied. (supply correct pronoun)
a) Whose	b) Who
c) Whom	d) His
100.He doesn't help the poor,	(use question tag)
a) Dis he	b) Does he
c) Doesn't he	d) do he
101.if CATTLE is related to HERD then SHEE	P is related to
CATTLE: HERD:: SHEE	P:?
a) FLOCK	b) SWARM
c) SHOAL	d) MOB
102. Choose the alternative that has the san	ne relationship to 09 as 07 has with 56
07: 56::09:?	
a) 54	b) 81
c) 72	d) 99
103.choose the alternative that will continu	e the number series below:

	5, 11, 17, 23,?	
a) 31		b) 29
c) 28		d) 35

104. If you had the transparent paper along the dotted line in figure 'X' which alternative figure from A, B, C and D would you get?



105.choose the word which is least like the other words in the group

a)	Bake	b)	Peel
c)	Fry	d)	Roast

106. Which of the following diagrams indicate the best relation between India, Haryana and World?



107.choose the word which is least like the other words in the group

a)	VIRGO	b)	PISCES
c)	CANCER	d)	ORION

108. If STATEMENT is coded as TNEMETATS then POLITICAL will be coded as?

- a) LACIYILOP
- c) OPILITACL

- b) LCATILIOP
- d) LACITIPOL

109.figure "X" is embedded in any one of the four alternative figures A, B, C or D. Find the alternative which contains figure 'X' as its part



110. If 'A' means add, 'B' means subtract, 'C' means multiply and 'D' means divide then what would be the answer of the equation?

	15 D 5 C 2 A 3=
a) 13	b) 11
c) 03	d) 09

111. Five men A, B, C, D and E read a newspaper. The one who reads first gives it to C. The one who reads last had taken from A. E was not the first or last to read. There were two readers between B and A. who read the newspaper last?

a) A	b)	B
	- ()-	

c) C d) D

112. Choose the alternative that has the same relationship to 16 as 12 has with 168.

a)	232	b) 25
c)	224	d) 20

12:168::16:?

113. If you fold the transparent paper along the dotted line figure 'X' which alternative figure would you get?



114. If in a certain code DEAF is written as 3587 and File is written as 7465 then IDEAL will be written as?

a)	43568	b) 43586
c)	63548	d) 48536

115. Choose the word which is least like the other words in the group

a)	PLASTIC	b)	WOOL
c)	PAPER	d)	WOOD

116. If we arrange the given words in alphabetical order, which word would come at last place, choose the correct alternative?

a) ROBBER b) RANDOM

c) RESTRICT	-	d) RESTAURANT	
117. Choose the alterna	ative that will continue the	e number series belo	w:
1	1, 13, 17, 19, 23, 25		
a) 27		b) 29	
c) 31		d) 33	
118. Choose the correc	t alternative that has the s BMJ:? :: EPV:HSY	same relation to BMJ	as HSY is to EPV
a) DRM		b) YJG	
c) EPM		d) EON	
119. Which of the follo	wing diagrams indicates th	ne best relation Flowe	er, Lotus and Rose?
(a)	(b)	(c)	(d)

120. Choose the alternative that has the same relationship to 11 as 49 has with 07? 07:49::11:?

a) 111 b) 90 c) 81 d) 121

121. Choose the word which is least like the other words in the group.

- a) GREEN b) PINK
- c) INDIGO d) VIOLET

122. If X is the brother of the son of Y's son, how is X related to Y?

a) Son b) Brother c) Grandson d) Cousin

123. Area of rectangle is 48m^{2.} If the length is 6 m then breadth = ______

- a) 13 m b) 6m
- c) 10 m d) 8m

- 124. The priest told the devotee, "The temple bell is rung at regular intervals of 45 minutes. The last bell was rung 5 minutes ago. The next bell is due to be rung at 7.45 am. At what time did the priest give this information to the devotee?
 - a) 7.00 AM b) 7.05 AM
 - c) 6.55 AM d) 7.40 AM

125. In certain code MBS is coded as ODU then BRL will be coded as?

- a) DTN
- c) CSM

- b) DUN d) CTN