ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION: 2021

PAPER- MATHEMATICS, GK, LANGUAGE AND INTELLIGENCE TEST CLASS- VI

TIME: 2 hrs 30 minutes Max.Marks: 300

Instructions

a) 120

c) 80

- 1. 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.
- 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 ro	unding 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	

b) 60 d) 40

4.Leela reads 25 pages o	of a book containing 1	00 pages. Lalita	read 2/5 of the	same book.
Who read less and by	y how much?			

a) Leela, 15 pages

b) Lalita, 15 pages

c) Leela, 20 pages

d) Lalita, 20 pages

 $5.(\frac{\sqrt{625}}{11} \times \frac{14}{\sqrt{25}} \times \frac{11}{\sqrt{196}})$ is equal to?

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) 12

c) 27

d) 45

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 marbl many marbles were left over after the friend	_
a) 90	b) 91
c) 6	d) 2
12.Cost of 4 dozens of bananas is rs.60. How m	any 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 5	0.25 kg and that of the remaining 8 boys
is 45.15 kg. Find the average weight of all th	e 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 len	gth 35m and breadth 20m. Meenu runs
around a square park of side 30m. Who cov	ers less distance and by how much, if
Meenu takes rounds and Manju takes 3 rou	nds completely.
a) Meenu, 150m	b) Manju, 120m
c) Manju, 150m	d) Menu, 120m
15.A photo frame is in the shape of a quadrilate	eral with one diagonal longer than the
other. Which of the following is the possible	shape of the photo frame?
a) Square	b) Rectangle
c) Rhombus	d) None of these
	·
16. The product of a non-zero whole number ar	d 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. 4	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°

13. I IIIU LIIE VOIUIIIE OI A LUDE OI SIUE OLI	find the volume of a cube of side 6	ocm
--	-------------------------------------	-----

a) 216cm³

b) 36cm³

c) 72cm³

d) 108cm³

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

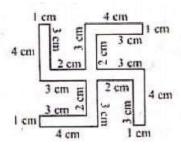
c) 3.982

d) 4.384

24. Find the perimeter of the figure



- b) 52cm
- c) 53cm
- 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°, 45°

c) 45°, 45°, 90°

d) 20°, 40°, 120°

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27. The area of a circle is 616 cm ² . Find its	
a) 28 cm	b) 14 cm
c) 56 cm	d) 32 cm
28. Find the quotient when 53.016 is divid	ed by 24
a) 2.29	b) 2.209
c) 2.292	d) 2.029
	3m width is covered by square tiles of side 25
cm. find the number of tiles used to ma	
a) 2250	b) 1440
c) 2880	d) 1200
30. What is the value of A in 475 \div 64% of	950= 900+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 f	rom a 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	er purchasing it for Rs. 1500. What is the
percentage of profit?	
a) 10	b) 15
c) 20	d) 16
35. In the first test of mathematics a stude	ent gets 18 marks out of 25. In the second test
of same weightage he got 22 marks. W	hat percentage of marks did he get more in
the second test?	
a) 4%	b) 8%

d) None of the above

c) 16%

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

- a) 21
- c) 16

- b) 15
- d) 17

37. Solve $\frac{7/3 \times 2/3 \div 3/5}{2+12/3}$

- a) $\frac{99}{70}$
 - 33

- b) $\frac{70}{99}$
- d) $\frac{70}{27}$

38.If 90.0675 is divided by 15, then quotient is:

- a) 6.0045
- c) 60.0450

- b) 6.0450
- d) 0.6045

39. How many seconds are there in 24 hours?

a) 30

b) 60

c) 3600

d) 86400

40. Value of $\sqrt{1089 \div 121}$

- a) 3
- c) 33

- b) 13
- d) 53

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

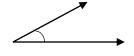
b) 14.625

c) 1.4652

d) 14.652

44. Which sequence correctly matches these angles with their measures

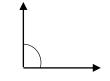
i.



ii.



iii.



iv.



- a) i, iii, iv, ii
- c) iv, iii, ii, i

- d) i.iv. iii.ii

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

b) Thiruvananthapuram

c) Srinagar	d) Jaipur
47. Which place is the coolest at 3 pr	n?
a) Kolkata	b) Srinagar
c) Mumbai	d)
48. How much higher is the tempera	ture in Mumbai from that of Srinagar at 3 pm?
a) 8.1	b) 35.1
c) 27	d) 29
	erature at 3 am need to rise for it to reach 40
degree Celsius in Thiruvananthap	
a) 6.5	b) 18.4
c) 21.6	d) 33.5
50. How much lower is the temperat	ure 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°
<u>SECTION</u>	N- 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 wh	ich sports?
a) Badminton	b) Cricket
c) Football	d) Hockey
53. The Space Programme of Govt. of	India is looked after by
a) ISBT	b) NTRO
c) NABARD	d) ISRO
54. Bhakranangal Project is built on t	the river?
a) Sutlej	b) Mahanadi
c) Godavari	d) Cauvery
55. Who is known as an 'Iron Man of	India'?

b) Mahatama Gandhi

a) Jawahar Lal Nehru

C)	Sardar Vallabhai Patel	d)	Subhash Chandra Bose
56. The lo	ngest river in South India is?		
a)	Mahanadi	b)	Indus
c)	Saraaswathi	d)	Godavari
57.Which	planet is known as a morning star as we	ell a	s evening star?
•	Mars	•	Venus
c)	Mercury	d)	Earth
58. Which	article of constitution provides Indian (Citiz	en 'Right to Equality'?
	Article 12		Article 13
•	Article 17	•	Article 14
-,		,	
59. ' Naro	ra' nuclear power plant is located in the	sta	te of?
a)	Maharashtra	b)	Tamil Nadu
c)	Uttar Pradesh	d)	West Bengal
		7	
	of the following diseases spreads throu		
•	Malaria	•	Cholera
c)	Dengue	d)	Filaria
61.Which	is biggest dessert in the world?		
	Kalhari Dessert	b)	Atkama Dessert
•	Sahara Dessert	•	Gobi Dessert
	6/1/		
62.Manas	national park is located in the state of?		
a)	Assam	b)	Arunachal Pradesh
c)	Himachal Pradesh	d)	Andhra Prasdesh
	of these grows from the roots?		
	Potato	•	Ginger
c)	Carrot	d)	Sweet potato
•	dris is also known as?	I- \	Wastawa Chata
•	Aravali	•	Western Ghats
C)	Himadri	u)	Eastern Ghats
65.The ga	s filled in a weather balloons is		
a)	Neon	b)	Helium

c)	Argon	d)	Oxygen
66.Growir	ng children need more of		
	Carbohydrates	b)	Vitamins
	Protein	•	Fats
67. Which	gas is dissolved under pressure in soft of	drin	ıks?
-	Oxygen	•	Carbon dioxide
c)	Nitrogen	d)	Hydrogen
68.Who is	the lowest ranked Air Force among the	se?	
	Wing Commander		Group Captain
	Flying Officer		Flight Lieutenant
,	, 3	,	
69. Which	of the following is a national festival?		
a)	Baisakhi	b)	Republic day
c)	Pongal	d)	Chhath puja
	artya Sen won Nobel Prize in which field		
•	Economics	•	Peace
C)	Chemistry	d)	Literature
71. The imaginary line drawn half way between North Pole and South Pole is called			
	Tropic of Cancer		Equator
	Arctic Circle	•	Antartic Circle
	6.//		
72. The la	rgest island in the world is		
a)	Australia	b)	New Zealand
c)	Greenland	d)	Mozambique
	oldest place in the world, lying in the sou		_
a)	Greenland	•	Antartica
(C)	Australia	a)	New Zealand
74.Who ir	nvented telephone in 1876?		
	Alexander Graham Bell	b)	James Hickey
•	Guglielmio Macron	•	Logle Beird
•	mar' is a popular folk dance of which of		_
a)	Raiasthan	b)	Madhva Pardesh

c) Orissa d) Uttar pardesh

SECTION-C LANGUAGE

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

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

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c) because he had annoyed Bacchus	ol, Kilvic	
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 t	couched?	
a) Daughter		
b) Son		
c) Uncle		
d) Aunt		
Rearrange the following words/ phrases to make	a magningful sentences. Choose the	_
correct sequence.	e meaningful sentences. Choose the	_
81. It (a) / life is (b)/what we (c)/make (d)		
a) Abcd	b) Cdab	
c) Dabc	d) bcda	
82. gold (a)/ is not (b)/glitters (c)/all that(d)		
a) Abcd	b) Cdba	
c) Dabc	d) dcba	
83.playing(a)/in the(b)/ park(c)/children are(d)	1	
a) abcd	b) bcda	
c) dabc	d) cdab	
c, dabe	a, caas	
Fill in the blanks with appropriate option.		
84. Either work hardgive up stud	dies.	
a) nor	b) or	
c) and	d) but	
85. He is afraid dog		

b) Of

d) by

a) On

c) In

86. He	tea ever	ry morning.	
a)	Drinks	b)	Is drinking
c)	Drank	•	Drunk
87.The ch	ild has been miss	ing yeste	rday.
a)	For	b)	Of
c)	Ву	d)	since
Do as directe	ed:		
88.John is	my	brother (find out the corr	ect adjective)
	Elder		Bigger
	Old		Young
-,			
89. Frencl	n isea	sy language. (select correc	ct article)
	Α		An
c)	The	d)	None
90. Ashok	h	im yesterday. (write the c	orrect form of the verb)
a)	Meet	b)	Met
c)	Will meet	(d)	Is meeting
Choose the r	nost appropriate	ontion	
Choose the i	nost appropriate	Option	
91. Which	word means nea	arly the same as 'sufficient	:'?
a)	Infinite	b)	Adequate
c)	Merry	d)	Surplus
92. Which	word is the oppo	osite if 'simple'?	
a)	Complex	b)	Easy
c)	Obey	d)	Show
93.A list o	f books in library		
a)	Monologue	b)	Dialogue
c)	Catalogue	d)	Diary

94. Find the feminine gender of 'horse'.

a) Mare	b) Doe
c) Ewe	d) Ram
95. Choose the word which means the opposi	te of 'rise'.
a) Fall	b) Smooth
c) Pride	d) Rash
96. Choose the word which means same as 'g	
a) Cheerful	b) Sorrow
с) Нарру	d) Injury
97. One who does not believe in existence of 0	
a) Theist	b) Pacifist
c) Ascetic	d) Atheist
98.The match has been postponedi	t has been raining outside.(supply
conjunction)	CX,
a) So	b) Because
c) Therefore	d) And
99.This is the boy parents have died	d. (supply correct pronoun)
a) Whose	b) Who
c) Whom	d) His
\circ	
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 SHEEP i	s related to
CATTLE: HERD:: SHEEP:	?
a) FLOCK	b) SWARM
c) SHOAL	d) MOB
102. Choose the alternative that has the same	relationship to 09 as 07 has with 56

a) 54 b) 81

07: 56::09:?

c) 72

103.choose the alternative that will continue the number series below:

5, 11, 17, 23,?

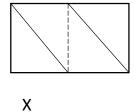
- a) 31
- c) 28

b) 29

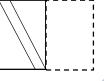
d) 99

d) 35

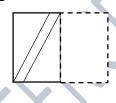
104. If you had the transparent paper along the dotted line in figure 'X' which alternative figure from A, B, C and D would you get?



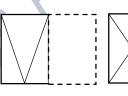




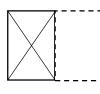
(a)A



(b)B



(c)C



(d)D

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?



(b)



(c)



(d)

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

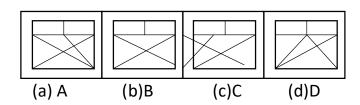
b) LCATILIOP

c) OPILITACL

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.

12:168::16:?

a) 232

b) 256

c) 224

d) 208

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

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c)	63548	d) 48536	
a)	ose the word which is least like the othe PLASTIC PAPER	r words in the group b) WOOL d) WOOD	
	e arrange the given words in alphabetication choose the correct alternative?	al order, which word would come at last	
•	ROBBER RESTRICT	b) RANDOM d) RESTAURANT	
117. Choose the alternative that will continue the number series below: 11, 13, 17, 19, 23, 25			
a)	27	b) 29	
c)	31	d) 33	
118. Choose the correct alternative that has the same relation to BMJ as HSY is to EPV BMJ:? :: EPV:HSY			
a)	DRM	b) YJG	
•	EPM	d) EON	
119. Which of the following diagrams indicates the best relation Flower, 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:?			
-	111	b) 90	
c)	81	d) 121	
121 Choc	ase the word which is least like the othe	r words in the group	

b) PINK

a) GREEN

Williary School, Rivic			
c) INDIGO	d) VIOLET		
122. If X is the brother of the so	n 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	f 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	b) DUN		
c) CSM	d) CTN		