# ALL INDIA SAINIK SCHOOLS ENTRANCE EXAMINATION : 2018
# PAPER I – MATHEMATICS, GK AND LANGUAGE
# CLASS – VI

Time : 2 Hrs Max. Marks : 250

Name in Full .....Roll No. .....

Initial of Invigilator .....Code No. .....

(To be filled by the Office)

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## PAPER I – MATHEMATICS, GK AND LANGUAGE : CLASS VI

Note : Candidate **NOT TO WRITE** Name or Roll Number on any page in the Main Answer Book.

| Marks Obtained | A Maths | | B GK | | C Language | | Code No. _____ |
|---|---|---|---|---|---|---|---|

Full Signature of Examiner _____Checked By _____

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## INSTRUCTIONS

1. This question paper contains of THREE 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 and ‘C’ Language contains 25 questions of 2 marks each respectively.

2. Section ‘D’ Intelligence paper contains 25 questions. The Question Paper will be given after 2 hours. Answers for ‘Section D’ is also to be written in the same OMR answer sheet.

3. 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.

4. Evaluation of OMR answer sheet will be done on a computer. Be careful and ensure no un-necessary marks on the OMR answer sheet/ fold or attempt to deface the OMR answer sheet, otherwise it will not be evaluated.

5. Rough work must be done on the additional sheet only and **NOT** on OMR answer sheet.

6. Write your answers in Blue/Black ink only. Do not use pencil.

7. There are total 17 pages in the question paper.

## SECTION A - MATHEMATICS

1. The greatest 8-digits number with given digits 5, 8, 7, 5, 2, 0, 6, and 1 is

   (a) 88765210 (b) 87765210

   (c) 88765521 (d) 87655210

2. Choose the correct option if numbers 52806 , 52086 , 52860 , 52800 and 58260 are arranged in ascending order

   (a) 52086 , 52806 , 52860 , 52800 , 58260

   (b) 52800 , 52860 , 52086 , 58260 , 52806

   (c) 52086 , 52800 , 52806 , 52860 , 58260

   (d) 52800 , 52806 , 52860 , 52086 , 58260

3. A number that must be subtracted from 925564 to make it equal to the sum of 234251 and 352421 will be

   (a) 238892 (b) 338882

   (c) 338892 (d) 337892

4. The product of 10101 X 25 is

   (a) 252725 (b) 252525

   (c) 25025025 (d) 272725

5. The average age of 3 sisters is 15. If the ages of 2 sisters are 12 years and 15 years, the age of the third sister is

   (a) 21 years (b) 17 years

   (c) 18 years (d) 16 years

6. 7/6 of a leap year = _____ week

   (a) 427 (b) 35

   (c) 61 (d) 13

7. Write Roman numerals CDXLIX in Arabic numerals

   (a) 569 (b) 449

   (c) 549 (d) 469

8. Value of (700÷10) – {(12x8) ÷ (34-10)} is

   (a) 69 (b) 68

   (c) 67 (d) 66

9. 2 = _____ %

(a) 200 (b) 0.02

(c) 2/100 (d) 20

10. Vicky bought a bicycle for Rs.3,000.00 and sold it for Rs.2,700.00 . What was his loss or gain percent ?

(a) 10% loss (b) 10% gain
(c) 11.11% gain (d) 11.11% loss

11. A train leaves Hyderabad at 01:15 PM on Friday and reaches Chennai at 07:30 AM on Saturday .The duration of the journey is

(a) 18 hrs 30 min (b) 17 hrs 45 min
(c) 18 hrs 15 min (d) 17 hrs 15 min

12. Karishma bought two necklace for Rs.1,39,500.00 . She sold one of them for Rs.75,000.00 and the other one for Rs.80,000.00 . How much money did she gain?

(a) Rs.25,500.00 (b) Rs.15,500.00
(c) Rs.20,500.00 (d) Rs.15,000.00

13. A tall office building has 85 floors. Each floor has 48 windows. Each window is to be decorated with 64 tiny bulbs.How many bulbs would be needed to decorate all the windows?

(a) 261120 (b) 273920
(c) 456960 (d) 209920

14. The smallest 5-digit number that is divisible by 19 is

(a) 10019 (b) 10013

(c) 10032 (d) 10000

15. The greatest number that divides 38 and 68 leaving 8 as remainder in each case is

(a) 10 (b) 15

(c) 60 (d) 30

16. The decimal notation of 10 kg 2 dag 6 g is

(a) 10.260 kg (b) 10.206 kg
(c) 10.026 kg (d) 10.006 kg

17. Which of the following pair of angles are supplementary?

(a) $46° \; and \; 44°$ (b) $113° \; and \; 67°$
(c) $245° \; and \; 115°$ (d) $90° \; and \; 180°$

18. The perimeter of the rectangle and square are same .Length and breadth of the rectangle are 10 cm and 8 cm respectively. What is the area of the square.

(a) 114sq. cm (b) 36sq.cm
(c) 81sq.cm (d) 64sq.cm

19. Which of the following measures of three angles can be those of a triangle

(a) $52° , 69° , 79°$ (b) $30° , 69° , 71°$
(c) $132° , 169° , 59°$ (d) $32° , 69° , 79°$

20. Which statement is true?

(a) All hexagons are triangles because they have at least 3 sides.

(b) All octagons are polygons because they have at least 3 sides.

(c) All parallelograms are rectangles because they have 2 sets of parallel sides.

(d) All rhombus are squares because they have 4 sides that are all the same length.

21. The fraction equivalent to $1.25$ is :

(a) 1 1/4 (b) 12 1/2
(c) 1 1/8 (d) 12 1/4

22. The sum of two numbers is 11009. If one of them is 9999 , the other number is

(a) 1010 (b) 1110
(c) 2110 (d) 21008

23. Simplify : $6 \div 6 + 6 \times 6 - 6$

(a) 1 (b) 7
(c) 31 (d) 36

24. Simplify : 1 1/24 – 1+ 7/36

(a) 17/72 (b) 1 17/72
(c) 7/60 (d) 5/60

25. Sara poured 1 1/8 cups of lemonade each in 5 glasses. What was the total amount of lemonade Sara poured in 5 glasses?

(a) 3 7/8 cups (b) 5 1/8 cups

(c) 5 5/8 cups (d) 6 1/8 cups

26. Ritu has 1/4 of a sack of rice. She divides the rice equally into 7 bags. What fraction of the full sack of rice is in each bag?

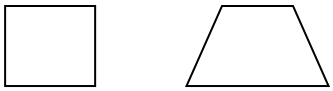
(a) 1/28 (b) 1/7

(c) 2/11 (d) 11/28

27. 1 + 0 + 9/100 + 3/1000 =

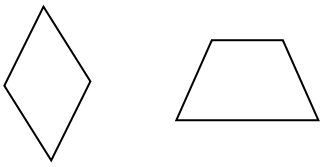
(a) 1.093 (b) 1.903 (c) 1.93 (d) 1.0093

28. Which two quadrilaterals have both 2 pairs of parallel sides and 2 acute angles?

(a) 

(b) 

(c) 

(d) 

29. What is the sum of 20.08 , 20.008 , 20.088 and 20.888

(a) 81.064 (b) 81.604

(c) 80.064 (d) 80.888

30. Round off 37504 to the nearest hundreds

(a) 37500 (b) 37000

(c) 38000 (d) 30000

31. A train is running at a speed of 75 kms / hour. How much time will it take to cover a distance of 350kms ?

(a) 4 hrs (b) 5 hrs

(c) 4 hrs 30 min (d) 4 hrs 40 min

32. A block of wood is in the form of a cube , its edge is 4 m. How many rectangular pieces of dimension 20cm x 10cm x 5cm can be cut from the block ?

(a) 640 (b) 64

(c) 6400 (d) 64000

33. In how many years, a sum of Rs.500 at 5% per annum will amount to Rs.600?

(a) 3 years (b) 4 years

(c) 5 years (d) 6 years

34. The average of four numbers is 30 . If the sum of first three numbers is 85, the fourth number is:

(a) 35 (b) 25

(c) 45 (d) 55

35. What percent of 10 km is 10 m ?

(a) 0.1% (b) 1.0%

(c) 10.0% (d) 40.0%

36. The number of square tiles, of side 15cm, required for flooring a room of size 3.6m x 4.5m, will be :

(a) 720 (b) 360

(c) 10800 (d) 5400

37. The smallest odd number formed by using the digits 1, 2, 3, 4, and 5 is :

(a) 12345 (b) 12435

(c) 12453 (d) 12534

38. Which of the following numbers are arranged in ascending order?

(a) 1/3, 1/2, 0.25 (b) 0.25, 1/2, 1/3

(c) 0.25, 1/3, 1/2 (d) 1/2, 1/3, 0.25

39. A boat is flowing in still water at the speed of 18 km / hour . The speed of boat in m / sec is :

(a) 50 m/sec (b) 72m /sec (c) 7.2 m/sec (d) 5 m /sec

40. The value of $200^0\,F$ in degree Celsius is ……. [Use C= 5/9(F-32)]

(a) $80.3^0\,C$ (b) $93.3^0\,C$

(c) $100.3^0\,C$ (d) $105.3^0\,C$

41. Find the difference between the number 36490 and the number obtained by interchanging the places of 6 and 9 :

(a) 2970 (b) 3030

(c) 2070 (d) 2790

42. Convert (3.75 of 5% + 7.25 of 10%) into decimals:

(a) 0.9152 (b) 0.9521

(c) 0.9125 (d) 09527

43 What is the next row of numbers ?

| | | |
|---|---|---|
| 28 | 84 | 112 |
| 38 | 114 | 152 |
| 48 | 144 | 192 |

(a) 58 174 232

(b) 58 184 244

(c) 68 204 272

(d) 68 214 292

44. A boy runs around a rectangular field of length 40m and breadth 25m. How much distance will he run if he takes 4 rounds of that field.

(a) 4000m (b) 260m

(c) 520m (d) 400m

45. A room is 15m long and 10m broad . Find the cost of carpeting its floor if 1 sq cm of carpet costs Rs 2.00 .

(a) Rs.300 (b) Rs.300000

(c) Rs. 30000 (d) Rs. 3000000

46. The cost of a pack of 15 balls is Rs 300 and a pack of 12 shuttle cock is Rs 96. If Raghu bought 1 ball and 1 shuttle cock , how much would he pay to shopkeeper?

(a) Rs 24 (b) Rs 22

(c) Rs 26 (d) Rs 28

47. The greatest number which divides 624 and 936 exactly is 312 . Find the smallest number which is divisible by 624 and 936.

(a) 1820 (b) 1872

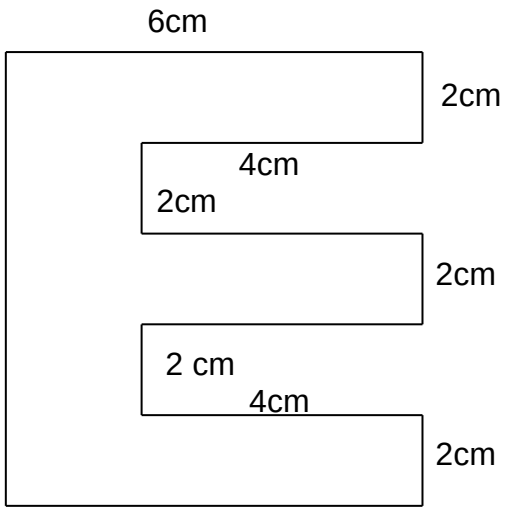
(c) 1272 (d) 1864

48. A person purchased an old bicycle for Rs. 450 and spends Rs 50 on its maintenance. If he sold the old bicycle for Rs 600 then his profit percentage is

(a) 15% (b) 18%

(c) 20% (d) 25%

49. Find the area of figure given below:




(a) 56 sq cm (b) 48 sq cm

(c) 44 sq cm (d) 60 sq cm

50. Amar spent 3/8 of his time studying science. He spent 2/5 as much time studying English as science. What fraction of Amar's study time was spent studying English?

(a) 1/40 (b) 3/20

(c) 31/40 (d) 15/16

## SECTION B - GENERAL KNOWLEDGE

51. Which feature helps a coconut fruit to float in water?

(a) a fibrous outer covering (b) a spongy part

(c) presence of hook (d) presence of spine

52. Which of the following is a non-communicable disease?

(a) chickenpox (b) beriberi

(c) common cold (d) measles

53. The rabies virus is carried by

(a) cockroaches (b) hens

(c) dogs (d) rabbits

54. Milk turning sour is a

(a) physical change (b) reversible change

(c) chemical change (d) none of these

55. The wearing off or carrying away of soil by the action of water or wind is called

(a) storm (b) flood

(c) soil erosion (d) deforestation

56. Whales and dolphins are classified as

(a) fishes (b) reptiles

(c) mammals (d) amphibians

57. The working of the internal organs of our body is controlled by this system

(a) reproductive (b) circulatory
(c) respiratory (d) nervous

58. A person might faint if his heart does not send enough blood to his

(a) feet (b) Liver
(c) kidneys (d) brain

59. The upward push of water on a floating object is called

(a) buoyant force (b) volume
(c) density (d) pressure

60. The first artificial satellite launched by India in 1975 was

(a) Sputnic 1 (b) Aryabhatta
(c) Charaka (d) Insat

61. Those who study earthquakes are called

(a) geologist (b) seismologists
(c) astronomers (d) astrologers

62. Which of the following gas is not a greenhouse gas?

(a) carbon dioxide (b) oxygen
(c) methane (d) CFC

63. The model of the earth is called a

(a) circle (b) sphere
(c) globe (d) marble

64. Agriculture cannot be practiced on mountains on a large scale as they

(a) are thinly populated (b) have a shortage of land
(c) have a thin soil cover (d) have unsuitable climate

65. The condition of the atmosphere at a given place and time is called

(a) season (b) climate
(c) altitude (d) weather

66. The highway of Central Africa is another name for

(a) River Nile (b) River Congo
(c) River Zimbani (d) River Kwango

67. Most of the grasslands of the world are found in the

(a) Tropical Zone (b) Temperate Zone
(c) Torrid Zone (d) Frigid Zone

68. Any sound louder than 90 decibels can cause

(a) asthma (b) digestive problems
(c) typhoid (d) loss of hearing

69. Aligarh Muslim University is associated with

(a) Rabindranath Tagore (b) Tansen
(c) Kalidas (d) Syed Ahmad Khan

70. The English Government introduced the policy of divide and rule to

(a) educate Indian (b) encourage nationalism
(c) reform Indians (d) suppress nationalism

71. Purna Swaraj means

(a) non-cooperation (b) civil disobedience
(c) boycott (d) complete Independence

72. The Lok Sabha can have a maximum of

(a) 12 members (b) 552 members

(c) 238 members (d) 543 members

73. The League of Nations was formed to prevent

(a) destruction (b) loss of lives

(c) droughts (d) another world war

74. The world has been made smaller due to

(a) wheels (b) steam engines

(c) fast means of transport (d) cars

75. Internet is a source of information on

(a) documentaries (b) e-mail

(c) any topic (d) a few topic

## SECTION C – LANGUAGE

**Read the following passage and answer the questions.**

### HORACE DENBY

Everyone thought that Horace Denby was a good and honest citizen. He was about fifty years old and unmarried, and he lived with a housekeeper who worried over his health. In fact, he was usually very well and happy, except for attacks of hay fever in summer. He made expensive locks and was successful enough at his business to have two helpers. Yes, Horace Denby was good and respectable – but not completely honest.

Fifteen years ago, Horace had served his first and only sentence in prison for stealing jewels. The priest at the prison had liked Horace – everyone did – and had tried to help him to live an honest life. But Horace did not want to become honest. He only wanted to make sure that his dishonesty never got him into trouble again.

**76. Horace Denby was**_____

(A) old (B) unmarried (C) handicapped (D) both (a) & (b)

**77. _____ worried about the health of Horace.**

(A) his wife (B) the priest (C) his housekeeper (D) Horace

**78. For stealing jewels, Horace was sent to prison_____**

(A) only once (B) twice (C) thrice (D) never

**79. The profession of Horace was_____**

(A) businessman (B) thief (C) housekeeper (D) locksmith

**80. Choose the word which means the opposite of <u>EXPENSIVE.</u>**

(A) cheap (B) luxurious (C) costly (D) heavy

**81. Choose the word which means almost same as <u>UNMARRIED.</u>**

(A) handsome (B) widow (C) young (D) bachelor

**Choose the most appropriate option given against each question.**

**82. A heard of cows or_____**

(A) birds (B) elephant (C) sheep (D) horse

**83. This is my book and that is _____**

(A) yours (B) your (C) our (D) ours

**84. Rajan's father and Rohan's father_____ businessmen.**

(A) are (B) have (C) is (D) has

**85. My friends_____been asking for the party photographs.**

(A) do (B) does (C) have (D) has

**86. Rakesh_____his mother tongue very fluently.**

(A) speak (B) speaking (C) speaks (D) none of these

**87. Ankit and his family_____in Europe for three weeks.**

(A) have been travelling (B) have travelling
(C) been travelling (D) have travelled

**88. Bharti_____yoga classes these days.**

(A) attending (B) has attending
(C) is attending (D) has been attending

**89. My house is _____as yours.**

(A) big (B) as big (C) bigger (D) biggest

**90. This is the _____comics I have ever read.**

(A) most interesting (B) more interesting
(C) less interesting (D) none of these

**Select one word from the options for the given definition.**

**91. A book or work of art whose author is unknown:-**

(A) anonymous (B) playwright (C) novelist (D) poet

**92. A person who believes in the existence of God:-**

(A) atheist (B) theist (C) agnostic (D) pacifist

**Select the most appropriate option for question tag.**

**93. I have completed my homework,_____?**

(A) have I (B) has I (C) do I (D) haven't I

**94. He does not do his work sincerely,_____?**

(A) does he (B) did he (C) doesn't he (D) do he

**Rearrange the following words/groups of words to make meaningful sentences. Choose the correct sequence given in the options.**

**95. <u>and grandpa</u> /<u>my grandma</u> / <u>too much</u> / <u>love each other</u>**
A B C D

(A) BDAC (B) BACD (C) DBCA (D) BADC

**96. <u>was very pretty</u> / <u>in her childhood</u> / <u>my grandma</u> / <u>and beautiful</u>**
A B C D

(A) CBAD (B) ADBC (C) CADB (D) CDAB

**Mark the option with the correct spelling of the given words:**

**97.** (A) address (B) adres (C) adress (D) addres

**98.** (A) appresiation (B) appreciation (C) appreciason (D) apreciation

**Choose the appropriate option to fill in the blanks:**

**99. 'Books' is for 'book', _____is for 'ship'.**

(A) sheeps (B) ships (C) shepherds (D) Sheep

**100. 'Kids' is for 'kid', _____is for 'child'**

(A) childs (B) child (C) children (D) None of these

ROUGH WORK

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