**NATIONAL TEACHERS COUNCIL**

**ALL INDIA TALENT SEARCH EXAMINATION**

**MODEL QUESTION PAPER**

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| **AITSE 0610** |

**CLASS VI**

**Duration: 11/2 hours Maximum Marks: 100**

General Instructions to Candidates

 1. This question paper contains 100 multiple choice questions each of one mark.

 2. The question paper is divided into two sections **A** and **B**

3. Section **A** is **S**cholastic **A**bility Test(**SAT)**, contains 50 questions. This section covers Science, Mathematics and Social Science.

4. Section **B** is **M**ental **A**bility **T**est **(MAT),** **C**omputer **A**warenessand **G**eneral **K**nowledge**,** contains 50 questions.

5. There will be no negative marks for wrong answer.

6. A separate answer sheet is provided for answering the questions. Each question should be answered by **darkening** the appropriate circle (A, B, C, or D) with a **blue or black ball pen**.

7. Answer recorded once in the answer sheet cannot be altered.

8. All rough works should be done only in the space provided for **rough work** in this question paper.

9. Calculator is not permitted in the examination hall.

10. Candidate should write his / her name in the space provided for the purpose.

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| **SECTION A** |

1. Which one of the following is given out during photosynthesis?

 A) Carbon dioxide B) Oxygen

 C) Water D) Nitrogen

2. A T. V. was placed behind a wall. Rani could hear the music from the T.V but could not see the

 T.V or its programmes. This is because

 A) Both light and sound travel in straight line

 B) Light reflects but sound does not reflect

 C) Sound can bends more than light

 D) All the above.

3. A simple device used to break or complete an electric circuit

 A) Bulb B) Electric Cell

 C) Tester D) Switch

4. Which one of the following material is not attracted by a magnet?

 A) Iron B) Copper

 C) Cobalt D) Nickel

5. Liza placed a bar magnet in her toy boat along its length with South Pole at the front of the boat. She kept the boat on the water in a bucket. The front of the boat will be towards

 A) North B) South

 C) East D) West

6. A car moves from one town to another town on a straight road. The motion of the car is an

example of

 A) Periodic motion B) Circular motion

 C) Rectilinear motion D) Oscillatory motion

7. The length of a pen is 12cm. What is the length of the pen in S.I. unit?

 A) 120mm B) 0.12m

 C) 1.2m D) 0.12km

8. A reversible change

 A) Milk to curd B) Grain to its flour

 C) Burning a paper D) Water to ice

9. Arjun prepared a saturated solution of sugar in water at room temperature.

We can dissolve more sugar in it by

 A) Heating the solution B) Cooling the solution

 C) Adding more water D) Both (A) & (C)

10. The most suitable method for separating seed grains from husk is

 A) Threshing B) Winnowing

 C) Sieving D) Hand picking

11. A natural polymer made of large number of glucose unit

 A) Rayon B) Wool

 C) Silk D) Cotton

12. Find the odd one

 A) Elephant B) Tiger

 C) Lion D) Leopard

13. Air is regarded as a mixture because

 A) Its pressure may vary B) Its temperature may change

 C) Its composition may vary D) Its volume change under different conditions

14. Which of the following is not true?

 A) Fats give much more energy compared to carbohydrates

 B) Vitamins and minerals are needed by our body in small amount

 C) Our body prepares vitamin D in the absence of sunlight

 D) Protein helps in growth and repair of our body.

15. A deficiency disease

 A) Gastroenteritis B) Goiter

 C) Rabies D) Polio

16. Which soil type is used in pottery?

 A) Sandy Soil B) Loamy Soil

 C) Alluvial Soil D) Clayey Soil

17. Transpiration is a process of

 A) Transportation of water and minerals in plants

 B) Loss of water vapour through arial parts of plants

 C) Exchange of oxygen and carbon dioxide in plants

 D) Preparation of food in plants

18. The female reproductive organ of a plant

 A) Ovary B) Pistil

 B) Stamen D) Sepal

19. Which one of the following is true?

 A) The cartilages are harder than bones

 B) The finger bones do not have joints

 C) The skull is made up of single bone

 D) The joint between the upper jaw and rest of the head is a fixed joint

20. Deforestation has an alarming effect on

 A) Increase in grazing area B) Sunlight

 C) Weed control D) Soil erosion

21. Which number is to be divided by 25 to get 25 as quotient and 5 as remainder?

 A) 750 B) 650

 C) 640 D) 630

22. The value **18.5675**, rounded up to two places of decimals is

 A) 18.50 B) 18.55

 C) 18.57 D) 18.61

23. What is equivalent to **5** ?

 **20**

 A) 25% B) 20%

 C) 30% D) 35%

24. By selling an article for **Rs. 750**, a man gains **20%**. What is the cost price of the article?

 A) Rs. 600 B) Rs. 625

 C) Rs. 250 D) 750

25. What is the difference between **11.1 X 11.1** and **1.11 X 111**?

 A) 1 B) 0

 C) 100 D) 110

26. The number **29789** when rounded to the nearest thousand is

 A) 29000 B) 29700

 C) 29800 D) 30000

27. The value of **1/125** is

 A) 0.8 B) 0.08

 C) 0.008 D) 0.0008

28. The volume of a cuboid is **36000**cm3 and its breadth and height are **30cm** and **40cm** respectively. What is its length?

 A) 20cm B) 30cm

 C) 40cm D) 50cm

29. (100 % of 5) + (5 % of 100) is equal to

 A) 10 B) 15

 C) 55 D) 105

30. **0.624 X 0.03** is equal to

 A) 1872 B) 0.1872

 C) 1.872 D) 16.87

31. What is the number of prime numbers between 0 and 10?

 A) 2 B) 3

 B) 4 D) 5

32. Which one of the following statement is not true?

 A) Each angle of a rectangle is right angle

B) Adjacent sides of a rectangle are equal

 C) All sides of rhombus are of equal length

D) A square is a parallelogram

33. The sum of two integers is **zero**. If one of the integers is **18**, then other one is

 A) 0 B) 1

 C) -18 D) 1/18

34. The LCM and HCF of two numbers are **48** and **4** respectively. If one of the numbers is **12**,

What is the other number?

 A) 16 B) 12

 C) 8 D) 4

35 Bangalore express departures from Guwahiti at 6:30am on Wednesday and arrives Bangalore at 4:20pm on Friday. What is the total time of the journey?

A) 65 h 30 min B) 66 h 30 min

 C) 65 h 50m D) 66 h 5 min

36. UN emblem is in

A) White centered on a light blue ground

B) Green centered on a bright yellow ground

C) Black centered on a light blue ground

D) Blue centered on a light white ground

37. Tripitika is the religious book of the

 A) Jains B) Buddhists

 C) Sikhs D) Hindus

38. The Ajanta painting belongs to:

 A) Harappan Period B)Mauryan Period

 C) Buddhist period D) Gupta Period

39. Who amongst the following is known as Indian Napoleon?

 A) Harsha B) Asoka

 C) Samudragupta D) Kanishka

40. Who is the leader of the Lok Sabha:

 A) Prime minister B) Speaker

 C) Vice President D) President

41. Mohanjadaro and Harappa are in

 A) India B) Pakistan

 C) Afghanistan D) Bangladesh

42. The colour of Dharma Chakra In the Indian National Flag

 A) Deep blue B) Navy blue

 C) Sky Blue D) Light Blue

43. Halley’s Comet appears once in ………… years.

 A) 12 B) 25

 C) 68 D) 76

44. The medical treatment ‘Acupuncture’ is related to:

 A) China B) India

 C) France D) Japan

45. The very earliest inhabitants in India were:

 A) Aryans B) Dravidians

 C) Paleolithic C) Astro – Africans

46. International Date Line passes through:

 A) 00 Greenwich B) 1800 Greenwich

 C) 900Greenwich D) 2700 Greenwich

47. Alluvial soil is formed by deposits of:

 A) Sea B) Ocean

 C) Rivers D) Streams

48. Equinox occurs on:

 A) March 15 B) March 21

 C) March 25 D) September 15

49. Mahatma Gandhi was assassinated in the year:

 A) January 20, 1948 B) January 1, 1948

 C) January 19, 1948 D) January 30 1948

50. Which one of the following is the correct sequence of planets in order of increasing distance from

 the sun?

 A) Venus, Mars, Uranus, Mercury. B) Mercury, Earth, Venus, Mars.

 C) Mercury, Venus, Earth, Mars D) Jupiter, Mercury, Venus, Earth.

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| **SECTION B** |

**DIRECTIONS**: - (Q.No.51 to 56). In each of these questions some numbers or letters are missing

 find out one correct answer among the given alternatives.

51. **1, 2, 4, 7, 11, 16, \_\_, 29**

 A) 26 B) 25

 C) 22 D) 20

52. **703, 655, 607, 559, 511, 463, \_\_\_.**

 A) 413 B) 414

 C) 415 D) 416

53. **Z, U, Q, ­­­\_\_\_, L**

 A) I B) K

 C) M D) N

54. **CE, GI, KM, OQ, \_\_**

A) TW B) TV

 C) SU D) RT

55. **a\_\_bbc\_\_aab\_\_cca\_\_bbcc**

 A) bacb B) acba

 C) abba D) caba

56.

 12 48

10 60

 8 **?**

A) 72 B) 144

 C) 68 D) 80

**DIRECTIONS**: - (Q.No.57 & 58). Pick the odd one out

57. A) Wheat B) Paddy C) Jowar D) Mustard

58. A) 14 B) 21 C) 35 D) 45

59 Smita wrote a sequence by using the following steps

 Step 1 She chose -15 as first term

 Step 2 Each term after first was 3 less than the preceding term.

 The first six terms in Smita’s sequence are

 A) -15, -12, -9, -6, -3, 0 B) -15, -18, -21, -24, -27, -30

 C) -15, -12, -8, -5, -2, 1 D) -15, -18, -22, -25, -28, -31

60. Pointing towards a person in a the photograph, Anjali said, “He is the only son of the father of my

 Sister’s brother”. How is the person related to Anjali?

 A) Mother B) Father

 C) Brother D) Uncle

61. Arya walks 5m towards east and then turns left and walks. In which direction is she walking?

 A) North B) South

 C) East D) West

62. What is the number of rectangles in the figure given below?

|  |  |
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 A) 16 B) 18

 C) 20 D) 14

63. If ¾ + 2/5 = P and 2/5 – 6/10 = Q then Q – P =?

 A) 3/12 B) 3/15

 C) 1 D) 0

64. If **+** means -, **X** means **÷** and **÷** means **+,** then

 **5 ÷ 60 X 5 ÷ 2**

 A) 30 B) 60

 C) 19 D) 12

65. The cost of 20 pencils is equal to the cost of 4 pens and cost of two pens is equal to cost of one

 pencil box. What is the cost of one pencil if the cost of one pencil box is Rs. 40?

 A) Rs. 4 B) Rs. 2

 C) Rs. 10 D) Rs. 5

66. If COME is coded as DPNF, then HELLO will be coded as:

 A) IFKKN B) IFMMP

 C) IDKKN D) IFMMN

67. If TEAM is coded as VGCO, then LIFE will be coded as:

 A) NJGE B) NKHH

 C) NKHG D) NLIH

**DIRECTIONS (Q. No68 &69**) Numbers are given in the first line and letters are given in the second. Numbers are the code for letters and letters are codes for numbers:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number: | 3 | 2 | 8 | 6 | 4 | 9 |
| Letters | P | I | S | C | H | U |

68. Then 649CHU coded as:

 A) CHU648 B) CHU469

 C) CHU649 D) UCH946

69. Then SCHC286 CODED as:

 A) 8648ISC B) 8646ISC

 C) 8648ISI D) 8648PIS

70. In certain code **ABCDEFGH** is written as **12345678**, what will be the code for **STUVWXYZ**

 A) 262524232422212019 B) 1920212223242526

 C) 192021212223242625 D) 1820212223242526

71. In certain code ‘SUBSTITUTION’ is written as ‘ITSBUSNOITUT’, what will be the code for

 **‘DISTRIBUTION’**

 A) IRTSIDNOITUB B) IRTSIDNOIBUT

 C) IRTDISNOITUB D) IRTDISNOIUTB

**DIRECTIONS: (Q. No. 72 to 76)** Three are alike and one is different from others. Find out the one which is different from others:-

72. A) Poland B) Greece C) Spain D) Korea

73. A) Gangtok B) Singhbhum C) Hyderabad D) Chennai

74. A) Lake B) Sea C) River D) Pond

75. A) Calendar B) Year C) Date D) Month

76. A) Teacher B) Student C) Book D) Parent

**DIRECTIONS: (Q. No. 47to 50).** Find the similar things for each questions:-

77. **XXY YXY YYX**

 **YXX YXY XYY**

 A)XXY YXY YYX B) XXY YXY YYX

 YXX YXY XYY YXX YXY XYX

 C). XXY YXY YYX D) XXY YXY YYX

 YXX YXY XYY YXY YYY XYY

78. **Thiruvanandapuram**

 **A)** Thirunanandhpuram B) Tirvananadapuram

 C) Thiruvanandapuram D) Thiruvanandpuram

79**. National Teachers Council Bangalore**

 **All India Talent Search Examination**

B) National Teachers Council, Bangalore

 All India Talant Search Examination

D) National Teachers Council Bangalore

 All India Talent Search Exemination

 A) National Teachers Counsil, Bangalore

 All India Talent Search Examination

 C) National Teachers Council Bangalore

 All India Talent Search Examination

**9 x 10 = 90**

**9 x 11 = 99**

**88 + 1 = 99**

80.

**B)** 9 x 10 = 90

 9 x 11 = 99

 89 + 1 = 99

**A)** 9 x 10 = 90

 9 x 11 = 99

 88 + 1 = 99

**D)** 9 x 10 = 90

 9 x 11 = 99

 88 + 1 = 99

**C)** 9 x 10 = 90

 9 x 11 = 99

 99 + 1 = 99

81. Aryabatta was a renowned Indian:

 A) Chemist B) Astronomer

 B) Physician D) None of These

82. The capital of USA is;

 A) New York B) Washington

 C) London D) Paris

83. Jnanpith award for 2007 announced recently, who secured this award

 A) Sri. Ravindra Kelekar B) Sri. O N V Kuru

 C) Sri. Kunwar Narayan D) Sri. Jayakantan

84. What is the expansion of IATA?

 A) The International Air Transport Association.

 B) The International Air Traffic Association

 C) The International Air and Travelers Association

 D) None of these

85. Who among the following person awarded the honorary rank of Group Captain by Indian Air Force?

 A) Virendra Sewag B) Sachin Tendulkar

 C) Mahindra Singh Dhoni D) Vijendra Singh

86. Which team won the Santhosh trophy in 2010?

 A) West Bengal B) Punjab

 C) Maharashtra D) Kerala

87. For which sports (Other than road races) require the maximum playing area?

 A) Football B) Golf

 D) Cricket D) None of these

88. For which events the following Indian athletes were world famous

1. Milkha Singh
2. P. T Usha
3. M.D Valsamma

1. 400 meter race, 400 meters hurdles, 100 meters hurdles.
2. 400 meter race, 200 meter race, 100 meter hurdles
3. 800 meters hurdles, 200 meter race, 800 meter race
4. None of These

89. Which game is the national game of Spain?

 A) Hockey B) Ice Hocky

 C) Bull fighting D) football

90. ‘Mega Bytes’ is the unit of measuring which of the following

 A) Memory capacity of a computer B) Decoding capacity of a computer

 C) Speed of a computer D) none of these

91. Which of the key is used to move the cursor to the start of a line?

 A) Page up B) Home

 C) Ctrl Home D) Ctrl page Up

92. If you have to send an email to multiple people you can use:

 A) To B) To, Cc

 C) To Cc Bcc D) All of these

93. Connecting different computers in an organized manner is called.

 A) Internet B) Routing

 C) Routing D) Networking

94 The planning commission of India showed the green light to the Rupees 12,400 Crore manned

 space mission of the ISRO this was scheduled for launch by:

 A) 2020-2021 B) 2016-2017

 C) 2011-2012 D) 2014-15

95. Which day is the International Human Rights Day?

 A) October 24 B) December 10

 C) November 25 D) February 2

96. An Important river in Indian Desert.

 A) Luni B) Krishna

 C) Beas D) Chenab

97. Who said “Swaraj is my birth Right and I shall have it”

 A) Bala Gangadhar Tilak B) Goplala Krishna Gokale

 C) B. R. Ambedkar D) Mahatma Gandhi

98. English is the official language of the which one of the following state

 A) Nagaland B) Manipur

 C) Tripura D) Assam

99. The name of 2012 Olympic Games mascot is:

 A) Mandeville B) Jumbo

 C) Shera D) Wenlock

100. Which city will be the venue of XX Commonwealth Games?

 A) Glasgow B) Sydney

 C) London D) Cape town

**SPACE FOR ROUGH WORK**

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