

Booklet No

4th STATE LEVEL MTGS COMPETITION, 2025

Organised by:

Mission Transformation of Government Schools (MTGS)

QUESTION BOOKLET

CLASS VIII

(Subjects: MATHEMATICS, SCIENCE, ENGLISH, SOCIAL SCIENCE & GENERAL AWARENESS)

INSTRUCTIONS TO THE CANDIDATES

1. This booklet contains 100 questions and each question carries equal marks.
2. This Question Booklet contains five Sections :
 - Section A - Mathematics (20 Questions)**
 - Section B – Science (20 Questions)**
 - Section B – English (20 Questions)**
 - Section C – Social Science (20 Questions)**
 - Section D – General Awareness (20 Questions)**
3. The duration of the exam is two (2) hours.
4. Attempt all the questions as there is **no negative mark** for wrong response.
5. Write your Name, School's Name, Class, Exam Roll No., etc. in the box specified in the OMR ANSWER SHEET.
6. In the OMR Answer Sheet, there are four options marked as A, B, C & D against each question. You will select the response which you want to mark on the OMR Sheet and darken it completely as shown in the OMR Sheet.
7. Each question has one correct answer. Attempting more than one choice for a particular question will be treated as a wrong response even if one of the marked answer happens to be correct.
8. If a question is left blank, there will be no mark for the question.
9. Darken the circle using a black or blue ball point pen.
10. You are permitted to take away with you this Question Booklet.

**DO NOT OPEN THIS QUESTION BOOKLET UNTIL YOU ARE TOLD TO DO SO
YOU ARE TOLD TO DO SO.**

SECTION A: MATHEMATICS

1. **Number of terms in $3x^3 + 3x^2 + x + 5$.**
a. 4
b. 3
c. 5
d. 6
2. **Two adjacent angles of a parallelogram have equal measure. Find the measure of each of the angles of the parallelogram.**
a. 45°
b. 90°
c. 75°
d. 100°
3. **Simplify: $(2x^2 - 25y^2) + (2x^2 + 25y^2) - 25y^2$**
a. $(2x - 5y)(2x + 5y)$
b. $(4x - 5y)(4x - 5y)$
c. $(2x - 5)(2x + 5)$
d. $(4x - 5y)(4x + 5y)$
4. **Which of the following statements is true?**
a. The sum of the measures of the external angles of any polygon is 540° .
b. The sum of the measures of three angles of a triangle is 360° .
c. All square are parallelogram.
d. All squares are rhombus but not rectangles
5. **Find $\frac{3}{7} + (\frac{-6}{11}) + (\frac{-8}{21}) + (\frac{5}{22})$**
a. $\frac{45}{462}$
b. $\frac{555}{462}$
c. $\frac{-125}{462}$
d. $\frac{-165}{462}$
6. **Which of the following is a rational number between 2 and 3?**
a. $\frac{22}{7}$
b. $\frac{27}{8}$
c. $\frac{29}{7}$
d. $\frac{21}{9}$
7. **Present age of Ram's mother is six times Ram's present age. Ram's age five years from now will be one fourth of his mother's present age. What is the present age of Ram?**
a. 10 years
b. 15 years
c. 6 years
d. 20 years
8. **An aquarium is in the form of a cuboid whose external measures are 80 cm x 30 cm x 40 cm. the base, side faces and back face are to be covered with a coloured paper. Find the area of the paper needed?**
a. 7986 cm^2
b. $5,600 \text{ cm}^2$
c. $7,200 \text{ cm}^2$
d. $8,000 \text{ cm}^2$
9. **A rational number is such that when you multiply it by $\frac{5}{2}$ and add $\frac{2}{3}$ to the product, you get $\frac{-7}{12}$. What is the number?**
a. $\frac{1}{12}$
b. $\frac{-1}{12}$
c. $\frac{-1}{2}$
d. $\frac{1}{2}$

- 10. Which of the following numbers, when squared, would not be an odd number?**
- a. 431 c. 2826
b. 7789 d. 335
- 11. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.**
- a. 12 c. 17
b. 19 d. 24
- 12. If $y = -2$, find the value of $3y(5y + 7) + 2(y - 7) + 10$**
- a. 12 c. 18
b. 10 d. 20
- 13. Ramesh bought an article for ₹ 784 which included GST of 12%. What is the price of the article before GST was added?**
- a. ₹720 c. ₹ 600
b. ₹ 750 d. None
- 14. Which of the following statements is false?**
- a. The multiplicative identity of whole numbers is 1.
b. 0 is the additive identity for integers and rational numbers
c. There are countless rational numbers between any two given rational numbers.
d. Rational numbers are not closed under operations of addition, subtraction and multiplication.
- 15. A shopkeeper purchased 200 bulbs for ₹ 10 each. However, 5 bulbs were fused and had to be thrown away. The remaining was sold at ₹ 12 each. Find the gain or loss %.**
- a. 15% c. 17%
b. 18% d. 19%
- 16. The difference between two whole numbers is 66. The ratio of the two numbers is 2 : 5. What are the two numbers?**
- a. 24, 70 c. 30, 96
b. 44, 110 d. 50, 66
- 17. Find the value of $(\frac{1}{2})^{-3} \times (\frac{1}{6})^{-2} \times (-4)^{-2}$.**
- a. 18 c. 6
b. 28 d. 10
- 18. Find the area of a rhombus whose side is 5 cm and whose altitude is 4.8 cm.**
- a. 14 cm² c. 20 cm²
b. 32 cm² d. 24 cm²
- 19. Arun borrowed ₹ 12,000 from Thomas at 10% per annum simple interest for 2 years. Had he borrowed this sum at 10% per annum compound interest, what extra amount would he have to pay?**
- a. ₹ 300 c. ₹ 120
b. ₹ 1000 d. ₹ 2400

20. A milk tank is in the form of cylinder whose radius is 1.5 m and length is 0.7 m. Find the quantity of milk in liters that can be stored in the tank?

- | | |
|-----------|------------|
| a. 495 L | c. 4950 L |
| b. 4930 L | d. 49500 L |

SECTION B: SCIENCE

21. Which of the following statements about microorganisms is/are INCORRECT?

- i. Some microorganisms fix nitrogen in the soil.
 - ii. Some microorganisms cause disease in plants and animals.
 - iii. All micro-organisms are harmful to humans.
 - iv. Some micro-organisms are used in making medicines.
- | | |
|----------------------|-----------------------|
| a. (i), (ii) & (iii) | c. (ii), (iii) & (iv) |
| b. (ii) & (iii) | d. (iii) only |

22. When did Edward Jenner discover the vaccine for Small pox?

- | | |
|---------|---------|
| a. 1798 | c. 1978 |
| b. 1897 | d. 1789 |

23. Which of the following is/are NOT an air-borne disease (s)?

- | | |
|--------------|---------------|
| (i) TB | (iii) Typhoid |
| (ii) Measles | (iv) Malaria |
- | | |
|----------------------|-----------------|
| a. (i), (iii) & (iv) | b. (ii) & (iv) |
| b. (ii) & (iii) | d. (iii) & (iv) |

24. Which of the following is a WRONG pair?

- | | |
|-------------|-----------------|
| a. Aluminum | - Wrapping food |
| b. Carbon | - Thermometers |
| c. Iron | - Machinery |
| d. Copper | - Electric wire |

25. When a metal X reacts with dilute Sulphuric acid, hydrogen gas is released, but When Metal Y is added to the same acid, no gas is produced. What can you concluded?

- a. Metal Y is more reactive than metal X.
- b. Metal Y and X have the same reactivity.
- c. Metal X is more reactive than metal Y.
- d. Metal X is a non-metal.

26. The full form of PCRA is –

- a. Petroleum Conservation Research Association.
- b. Petroleum Conservation and Resource Association.
- c. Petroleum Committee Research Association.
- d. Petroleum Committee and Resource Association.

27. Which one of the following is NOT a product obtained from coal?

- | | |
|------------|-------------|
| a. Coke | c. Coal gas |
| b. Bitumen | d. Coal Tar |

28. What is the main objective of wildlife sanctuaries?

- a. To promote tourism.
- b. To protect wildlife in their natural habitat.
- c. To promote medicinal plants.
- d. To conduct scientific research.

29. Which of the following is a THREAT to biodiversity?

- a. Habitat destruction
- b. Pollution
- c. Overexploitation of resources
- d. All the above

30. Which of the following is found only in plant cells and not in animal cells?

- | | |
|----------------|-----------------|
| a. Nucleus | c. Mitochondria |
| b. Chloroplast | d. Cytoplasm |

31. Choose the CORRECT statements:

- (i) Cells in an elephant are larger than the cells in a rat.
 - (ii) The boundary of the onion cell is the cell membrane.
 - (iii) The chromosomes can be seen only when the cell divides.
 - (iv) Plastids are of different colours.
- | | |
|---------------------|-----------------------|
| a. (i), (ii) & (iv) | c. (ii) & (iii) |
| b. (i) & (iv) | d. (ii), (iii) & (iv) |

32. Which animal reproduces through internal fertilization?

- | | |
|----------|---------|
| a. Fish | c. Frog |
| b. Human | d. Toad |

33. Fertilization results in the formation of –

- | | |
|-----------|-----------|
| a. Embryo | c. Zygote |
| b. Foetus | d. Sperms |

34. How long does an embryo take to develop into a chick?

- | | |
|------------|------------|
| a. 7 weeks | c. 5 weeks |
| b. 4 weeks | d. 3 weeks |

35. Which of the following statement is TRUE about force?

- a. Force can change only shape of an object, not its motion.
- b. A force is required to keep an object moving at constant speed.
- c. Force can change the speed, direction or shape of an object.
- d. Force has no effect on stationary objects.

36. Liquids exert pressure –

- a. Only at the surface c. In all direction
- b. Only downwards d. Only when heated

37. Rolling friction is –

- a. Less than sliding friction
- b. More than sliding friction
- c. Equal to sliding friction
- d. None of the above

38. Which of the following can reduce friction?

- a. Making the surface rough
- b. Using lubricants
- c. Increasing weight
- d. Pressing surfaces hard

39. What is used to test whether a liquid conducts electricity?

- a. Electric bulb or LED
- b. Barometer
- c. Magnetic Compass
- d. Thermometer

40. When electric current is passed through water, it breaks down into –

- a. Oxygen and Carbon
- b. Hydrogen and Oxygen
- c. Hydrogen and Carbon dioxide
- d. Nitrogen and Oxygen

SECTION C: ENGLISH

41. Meaning of BIOGRAPHY is _____

- a. a book written on the life of a person by another.
- b. a book written on the life of a person by himself or herself.
- c. person using services of a lawyer or other professional person.
- d. a person from one of the Southern States of the USA.

42. Elimination means _____

- a. Attraction c. Fascination
- b. Removal d. Extending in long gentle waves

43. "Discipline gives us stand truth for the strength to" Rearrange the given jumbled words to form a correct sentence.

- a. Discipline us give the strength to stand for truth.
- b. Discipline gives us stand for truth the strength to.
- c. Discipline stand for the truth gives strength to us.
- d. Discipline gives us the strength to stand for truth.

44. "He told Mani to go home." Change the given sentence into DIRECT SPEECH:

- a. He said, "Go home, Mani".
- b. He said, "Let's go home Mani".
- c. He says, "Go home, Mani".
- d. He said, "Mani, go to home".

45. He said to me, "What is your name?" Change the given sentence into INDIRECT SPEECH:

- a. He says to me what my name is.
- b. He asked me what my name was.
- c. He asked me what my name is.
- d. He asked me what is my name.

46. "My father always taught me my lessons". Pick out ADVERB from the given sentence.

- a. father c. always
- b. taught d. lessons

47. "All living beings are mortal". Pick out DETERMINER from the given sentence.

- a. All c. living beings
- b. are d. mortal

48. Pick out the CORRECT sentence from the following sentences.

- a. Sir Tom is our favorite teacher.
- b. Sir Tom is our more favorite teacher.
- c. Sir Tom is our favoritest teacher.
- d. Sir Tom is our most favoritest teacher.

49. "By whom had a sweet song been sung?" Change the given sentence into ACTIVE:

- a. By whom had a sweet song sung?
- b. Whom had sung a sweet song?
- c. Who had sung a sweet song?
- d. Who sang a sweet song?

50. "The zebra will be killed by the fierce lion." Change the given sentence into PASSIVE:

- a. The lion killed the fierce zebra.
- b. The zebra killed the fierce lion.
- c. The lion will kill the fierce zebra.
- d. The fierce lion will kill the zebra.

51. "The lamb looked around _____ fear." Fill in the given blank with an appropriate PREPOSITION.

- a. with c. of
- b. on d. for

52. Name the KIND of the following sentence: "What a lovely flower it is!"

- a. Interrogative sentence
- b. Exclamatory sentence
- c. Assertive sentence
- d. Imperative sentence

53. Change the following sentence into COMPLEX sentence: "He looks to be very poor."

- a. He looks like very poor.
- b. He looks too poor.
- c. He looks that he is very poor.
- d. He looks like he is too poor.

54. "It has been raining since morning." Name the TENSE of the given sentence.

- a. Simple present tense
- b. Present perfect
- c. Present perfect continuous
- d. Past perfect continuous

55. "I was waiting for you at the bus stop." Change the given sentence into SIMPLE PAST TENSE.

- a. I waited for you at the bus stop.
- b. I wait for you at the bus stop.
- c. I was waiting for you at the bus stop.
- d. I had waited for you at the bus stop.

Read the following passage and answer the questions from question number 56 to 60:

Marie Curie, the discoverer of radium was born in Warsaw, Poland, on November 7, 1867. Her childhood dream was to study science in Paris, but her father could not afford expenses for this. So, she took job as a governess, saved a little money and finally went to Sorbonne, the University of Paris, to study science. Her father could send a small amount, and her life in the university was disheartening experience in poverty and hunger. She lived only on bread, butter and tea, and she often fainted for lack of food. In spite of all this she pursued her studies indomitably, and she topped her class with Honors in physics and mathematics. Later she was married to a Frenchman, Pierre Curie, a brilliant but poor scientist and they began to work together. They discovered radium in 1902. Later they were awarded Nobel prize for physics and for the discovery of Radium and Polonium in the year 1903.

56. What was the childhood dream of Marie Curie?

- a. to explore the world
- b. to go to the moon
- c. to study science in Paris
- d. to marry a Frenchman

57. Why did Marie Curie often faint when she was in the University of Paris?

- a. Because of over eating
- b. She was suffering from some illness.
- c. Lack of food.
- d. Somebody pushed her.

58. Who was Pierre Curie?

- a. Marie Curie's husband, a poor but brilliant French scientist
- b. Marie Curie's elder brother
- c. Marie Curie's research guide
- d. Marie Curie's father

59. When did they discover radium?

- a. 1901
- b. 1903
- c. 1902
- d. 1904

60. For what did Madam Curie and her husband get Nobel Prize?

- a. For opening a laboratory.
- b. For physics and for the discovery of radium and polonium.
- c. For being a hardworking scientist.
- d. For being a studious student.

SECTION D: SOCIAL SCIENCE

61. What percentage of the total land area of Manipur is used for agricultural purpose?

- a. 67 %
- b. 50 %
- c. 15 %
- d. 30 %

62. Which mineral is commercially known as GREEN MARBLE?

- a. Copper
- b. Nickel
- c. Serpentinites
- d. Chromite

63. In a farm, a farmer rears cows and cultivates seasonal crops. This type of farming is known as

- a. Dairy farming
- b. Mixed farming
- c. Subsistence farming
- d. Commercial farming

64. Which one is an incorrect statement?

- a. Tea, coffee, cocoa are beverage crops.
- b. Coffee is the most popular beverage in the world.
- c. Jute is popularly known as Golden Fiber.
- d. Jhum Cultivation is practiced in hill region of Manipur.

65. The most important industry in Manipur is

- a. Steel & Iron Industry
- b. Automobiles Industry
- c. Cottage Industry
- d. IT Industry

66. The Silicon Valley is popular for

- a. Automobile Industry
- b. Textile Industry
- c. Agro Based Industry
- d. IT Industry

67. After the death of which king the Great Mughal Empire began to decay?

- a. Bahadur Shah I
- b. Aurangzeb
- c. Humayun
- d. Akbar

68. Who discovered the first direct sea trade route from Europe to India?

- a. Vasco da Gama
- b. Lord Dalhousie
- c. Thomas Roe
- d. Dom Henrique

69. Which king was recognized as the king of Manipur as per the Treaty of Yandaboo?

- a. Bodhachandra
- b. Gambhir Singh
- c. Kulachandra
- d. Harichandra

70. The relationship between Manipur and British East India Company was formally established in ____

- a. 1891
- b. 1762
- c. 1819
- d. 1826

71. What was the real name of Paona Brajabashi?

- a. Chinglensana
- b. Kajao Singh
- c. Naol Singh
- d. Pakasana

72. The British officers executed in front of Kangla Sha was/were

- (i) Quinton
- (ii) Cossins
- (iii) P. Kajao
- (iv) Simpson
- (v) Maxwell

- a. (i), (ii) & (iii)
- b. (ii), (iii) & (iv)
- c. (i), (ii) & (iv)
- d. All the above.

73. The Manipur Constitution Act was enacted in which year?

- a. 1975
- b. 1949
- c. 1947
- d. 1951

74. Who was the chairman of the Constituent Assembly of the Indian Constitution?

- a. Dr. Rajendra Prasad
- b. J Nehru
- c. BR Ambedkar
- d. MK Gandhi

75. Which one is not a Fundamental Duties?

- a. To respect National Flag & National Anthem
- b. To protect wildlife and natural environment.
- c. To safeguard public properties
- d. To prohibit trafficking women and children.

76. During which period, the Meitei Pangal was coming in Manipur?

- a. Meidingu Kiyamba
- b. Meidingu Loyumba
- c. Meidingu Khagemba
- d. Nongda Lairen Pakhangba

77. The Indian Parliament consists of

- a. The President
- b. The Lok Sabha
- c. The Rajya Sabha
- d. All the above

78. Which one is an INCORRECT statement?

- a. The Lok Sabha has 543 members.
- b. A Money Bill can be initiated only at Rajya Sabha.
- c. Jawaharlal Nehru was the first Prime Minister of India.
- d. Prime Minister is appointed by the president.

79. Which statement regarding the President is/are CORRECT?

- (i) He is the Supreme Commander of the Defense Forces in India.
- (ii) His tenure is 4 years.
- (iii) He is the Head of the Government.
- (iv) He appoints the Prime Minister and other Cabinet Ministers.

- a. (i) and (iii) are true
- b. (ii) and (iv) are true
- c. (i) and (iv) are true
- d. (iii) and (iv) are true

80. Which form of government is practiced in India?

- a. Monarchy
- b. Democracy
- c. Dictatorship
- d. Autocracy

SECTION E: GENERAL AWARENESS

81. The Mt Iso (Tenipu) the highest peak of Manipur is located in which district of Manipur?

- a. Ukhrul
- b. Tamenglong
- c. Senapati
- d. Kanjong

82. The country bordering to state Manipur is

- a. Bhutan
- b. Bangladesh
- c. Myanmar
- d. China

83. Who represented Manipur in the recently concluded Miss Universe India 2025?

- a. Dhanubi Kangjam
- b. Benita Laishram
- c. Sarangthem Nirupama Devi
- d. Sonia Samjetsabam

84. Which festival is celebrated to promote hill-valley unity and cultural harmony in Manipur?

- a. Yaoshang
- b. Ningol Chakouba
- c. Cheiraoba
- d. Mera Hou Chongba

85. Manipur Raj Bhawan, which was recently in news for demolition is located in

- a. Guwahati
- b. Delhi
- c. Shillong
- d. Kolkota

86. Linthoi Chanambam, recently in the news for winning a medal at the World Championship, is associated with which game?

- a. Cricket
- b. Judo
- c. Weight Lifting
- d. Football

87. When did the President Rule impose in Manipur after the resignation of N. Biren Singh?

- a. 3 May, 2023
- b. 13 February, 2024
- c. 13 February, 2025
- d. None of these

88. What is the significance of Sajibu Cheiraoba Festival of Manipur?

- a. Strengthening bond between brothers and sisters
- b. Marks the new year of Manipuri Calendar
- c. Promoting unity between hill and valley people
- d. Promoting tourism of Manipur

89. Under which scheme, we have daily hot cooked meal at our school?

- a. PM SHRI
- b. MGNREGA
- c. PM POSHAN
- d. PM KISHAN

90. Which bird visits Tamenglong District in large number during the month of October November?

- a. Rudy Shelduck
- b. Parrot
- c. Amur Falcon
- d. Pelican

91. What is the scientific name of our Shirui Lily?

- a. *Sermatica humea humea*
- b. *Rucervus eldii eldii*
- c. *Lilium Macliniae*
- d. *Osteobrama belangiri*

92. Which king introduced Hinduism in Manipur?

- a. Khagemba
- b. Pamheiba
- c. Bhagyacghandra
- d. Charairongba

93. During the reign of which king, the Anglo-Manipur War took place?

- a. Churachand Singh
- b. Chandrakirti
- c. Gambhir Singh
- d. Kulachandra

94. The festival associated with Boat Race is

- a. Yaoshang
- b. Gang Ngai
- c. Heikru Hidongba
- d. Cheiraoba

95. Mukna is usually associated with

- a. Lai Haraoba
- b. Cheiraoba
- c. Yaoshang
- d. Heikru Hidongba

96. What will come next in the series?

- 4, 12, 36, 108, _____
- a. 234
 - b. 354
 - c. 324
 - d. 424

97. If 11 is to 121, then 15 is to :

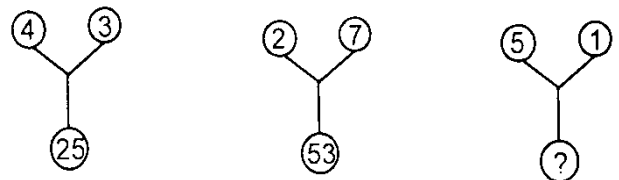
- a. 225
- b. 125
- c. 325
- d. 12321

98. If,

$$\begin{aligned} 1 + 3 &= 10 \\ 2 + 4 &= 18 \\ 3 + 6 &= 39 \\ 4 + 8 &= ? \end{aligned}$$

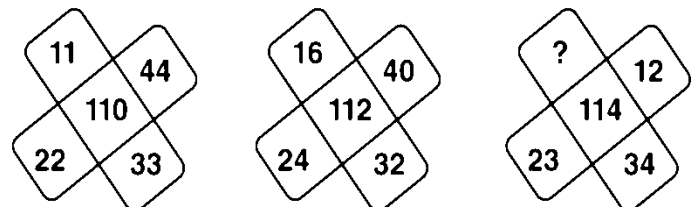
- a. 45
- b. 72
- c. 58
- d. 68

99. What is the missing number in the following problem figure?



- a. 25
- b. 35
- c. 26
- d. 28

100. Observe the number pattern in the figures and choose the missing number.



- a. 35
- b. 52
- c. 40
- d. 45