

Booklet No

4th STATE LEVEL MTGS COMPETITION, 2025

Organised by:

Mission Transformation of Government Schools (MTGS)

QUESTION BOOKLET

CLASS VII

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

INSTRUCTIONS TO 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 C – English (20 Questions)**
 - Section D – Social Science (20 Questions)**
 - Section E – 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.**

SECTION A: MATHEMATICS

1. A rational number is a number that can be expressed in the form:

- a) p/q where $q \neq 0$
- b) p/q where p, q are integers and $q \neq 0$
- c) Whole number only
- d) Natural numbers only

2. A wheel of radius 28 cm is attached to a smaller wheel of radius 14 cm such that both rotate together (they make one complete rotation simultaneously). When the larger wheel has covered a distance of 352 m, how many rotations will the smaller wheel make in the same time?

- a. 100
- b. 200
- b. 300
- d. 400

3. Find the sum of $\frac{-12}{10} + \frac{22}{15}$

- a. $\frac{8}{15}$
- c. $\frac{4}{15}$
- b. $\frac{8}{10}$
- d. $\frac{4}{30}$

4. In a class test containing 20 questions, 5 marks are awarded for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted. Raju gets 12 correct and 5 incorrect answers out of 17 questions he attempts. What is his score?

- a. 50
- c. 60
- b. 110
- d. 120

5. Which of the following statements is true?

- a) A triangle is said to be isosceles, if each one of its sides are of same length
- b) A triangle is said to be equilateral, if at least any two of its sides are of same length
- c) The sum of the lengths of any two sides of a triangle is greater than the length of the third side.
- d) The measure of any external angle of a triangle is equal to the measures of all interior angles.

6. Multiply $3\frac{1}{3} \times 4\frac{1}{5}$

- a. 8
- c. 10
- b. 12
- d. 14

7. Find the value of $\frac{3^3 \times 7^2 \times 4^3}{21^2 \times 6}$.

- a. 16
- c. 32
- b. 8
- d. 64

8. Find the perimeter of the rectangle whose length is 40 cm and diagonal is 41 cm.

- a. 98 cm
- c. 145 cm
- b. 108 cm
- d. 100 cm

9. Simplify: $(-2)^3 \times (-10)^2$

- a. 800
- c. -200
- b. -800
- d. 400

10. Out of 25 children in a class, 15 are girls. What is the percentage of boys?

- a. 40%
- c. 60%
- b. 80%
- d. 25%

11. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach -350 m.

- a. 40 min
- c. 44 min
- b. 56 min
- d. 60 min

12. Find the value of $\frac{-7}{12} \div \frac{-2}{15}$.

- a. $\frac{8}{35}$
- c. $\frac{22}{35}$
- b. $\frac{35}{8}$
- d. $\frac{35}{22}$

13. The cost of a flower vase is ₹ 120. If the shopkeeper sells it at a loss of 10%, find the price at which it is sold.

- a. ₹ 108
- c. ₹ 110
- b. ₹ 128
- d. None

14. A circular park has a pathway of uniform width around it. The outer circumference of the path is 176 m, and the inner circumference (along the inner edge of the path) is 132 m. Find the area of the path.

- a. 978
- c. 1078 m²
- b. 1140 m²
- d. 1050 m²

15. Which of the following is a rational number?

- a. Natural numbers
- b. Whole numbers
- c. Integers
- d. All of these

16. What should be the value of a if the value of $2x^2 + 3a + 5$ equal to 20, when $x=0$

- a. 5
- c. 3
- b. 4
- d. 8

17. Suresh takes a loan of ₹ 5000 at 15% per year as rate of interest. Find the interest he has to pay at the end of 3 years?

- a. ₹ 750
- c. ₹ 1500
- b. ₹ 2250
- d. ₹ 2000

18. Anjali plants 6 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}$ m. Find the distance between the first and last sapling.

- a. $2\frac{3}{4}$ c. $3\frac{3}{4}$
b. $4\frac{3}{4}$ d. $5\frac{3}{4}$

19. If $n = -2$, find the value of $n^3 - 5n^2 + 3(n + 10)$

- a. 14 c. 10
b. 8 d. -4

20. The circumference of a circle is 31.4 cm. Find the area of a circle. (take $\pi = 3.14$)

- a. 100 cm^2 c. 78.5 cm^2
b. 85.5 cm^2 d. 95.5 cm^2

SECTION B: SCIENCE

21. Which one among the following helps in the digestion of cellulose in ruminants?

- a. Yeast b. Bacteria
b. Virus d. Protozoa

22. The process of taking food into the body is called –

- a. Digestion b. Egestion
b. Ingestion d. Nutrition

23. What happens when Sea Breeze occurs?

- i. The land gets heated faster than the water
ii. The water cools down more slowly than the land
iii. Cool air rushes from sea towards land
a. (i) & (ii) are correct
b. (ii) & (iii) are correct
c. (i) & (iii) are correct
d. All the above

24. Which part of the thermometer prevents mercury level from falling on its own?

- a. Bulb c. Bob
b. string d. kink

25. Which one of the following is NOT a natural indicator?

- a. Turmeric powder b. China rose petal
b. Litmus solution d. Phenolphthalein

26. Which base is contained in lime water?

- a. Sodium hydrogen
b. Calcium hydroxide
c. Magnesium hydroxide
d. Aluminium hydroxide

27. What is the percentage of oxygen in exhaled air?

- a. 16.4% c. 21%
b. 4.4% d. 78%

28. The average breathing rate of a normal adult person is-

- a. 18-25 c. 15-18
b. 15-25 d. 15-20

29. Which component of blood is responsible for coagulation of blood?

- a. Plasma c. Platelets
b. RBC d. WBC

30. What is the percentage of urea in urine?

- a. 2.5% c. 2.7%
b. 9.5% d. 0.25%

31. Which one of the following is NOT included in human excretory system?

- a. Stomach c. urethra
b. ureters d. bladder

32. The process of fusion of male and female gametes is called _____.

- a. Pollination c. Zygotes
b. Embryo d. Fertilization

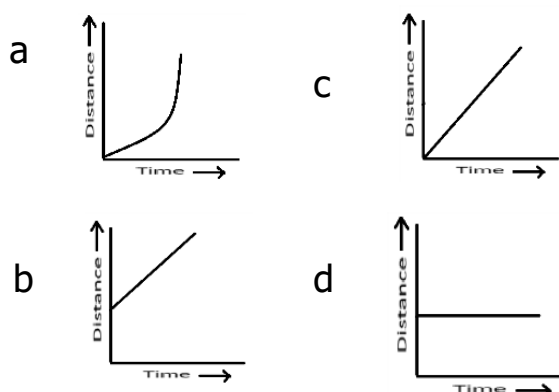
33. The scars which are found in the potatoes are called _____.

- a. Nodes c. Eyes
b. Buds d. Rhizomes

34. Spore producing organism is –

- a. Rose b. Bread mould
b. Potato d. Ginger

35. Which of the following distance-time graphs shows a truck moving with a speed which is not constant?



36. Which of the following relations is correct?

- a. $\text{Speed} = \frac{\text{Distance}}{\text{Time}}$
b. $\text{Speed} = \text{Distance} \times \text{Time}$
c. $\text{Speed} = \frac{\text{Time}}{\text{Distance}}$
d. $\text{Speed} = \frac{1}{\text{Distance} \times \text{Time}}$

37.What is the working principle of an electric bell?

- a. Heating effect of electric current
- b. Magnetic effect of electric current
- c. Chemical Effect of Electric Current
- d. Safety fuses

38.Full form of LED is –

- a. Light Emitting Diodes
- b. Light Emission Diodes
- c. Lamp Emitting Diodes
- d. Least Emitting Diodes

39.A virtual image larger than the object can be produced by a –

- a. Concave lens c. Concave mirror
- b. Convex mirror d. Plane mirror

40.The rear-view mirror of a car is a plane mirror. A driver is reversing his car at a speed of 2m/s. The driver sees in his rear view mirror the image of truck parked behind this car. The speed at which the image of the truck appears to approach the driver will be

- a. 1m/s c. 2m/s
- b. 4m/s d. 8m/s

SECTION C : ENGLISH

(For Question No. 41 – 44, read the passage carefully and choose the correct answer)

The Pandavas lost in the game of dice to the Kauravas, and had to stay in exile for thirteen long and lonely years. During this time, they had to move constantly from place to place for safety and to look for their daily needs. It was a difficult and exhausting time for them. One day, in the twelfth year, the Pandava brothers wandered deep into a forest in pursuit of a deer. Actually, the deer was none other than Yama, the god of Death who had taken the form of the animal so that he might test the piety and wisdom of Yudhisthira.

41. Why did the Pandavas have to stay in exile for thirteen long and lonely years?

- a. They wanted to explore the forest.
- b. The Pandavas lost in the game of dice to Kauravas.
- c. They were following a deer.
- d. They wanted to revenge on the Kauravas.

42. Why did they move from place to place?

- a. They were moving for safety and to look for their daily needs.
- b. They were spending their leisure time in the forest.
- c. They were searching for their loved ones.
- d. They wanted to hunt animals.

43.Which animal were the Pandavas pursuing one day?

- a. Tiger c. Lion
- b. Deer d. Cow

44. Pick out a word from the passage which means BANISHMENT?

- a. exile c. piety
- b. difficult d. exhausting

45.Rearrange the following words to make a proper sentence:

Their origin the Olympic games Greece ancient in have

- a. Ancient Greece have their origin in the Olympics.
- b. The Olympic Games have their origin in ancient Greece.
- c. The Olympic games their origin have in ancient Greece.
- d. The Olympic games ancient in Greece have their origin.

46. My friend was sitting _____ me.

- a. with c. in
- b. at d. of

47. Pick out the INCORRECT sentence from the following sentences.

- a. The books are lying on the table.
- b. The boys and girls are playing in the playground.
- c. Mr. tom was been complete his master's degree.
- d. We have been learning English grammar since January this year.

48. Synonym of ANGER is _____

- a. Sad c. Bad
- b. Good c. Rage

49. Fill in the following blank with an ADJECTIVE in the positive degree.

Susan is an extremely _____ lass.

- a. Beautiful c. More intelligent
- b. Most humble d. Best

50.Which is the tallest of the two sisters?

Correct the given sentence.

- a. Who is the tallest of the two sisters?
- b. Which is the taller of the two sisters?
- c. Which is the tall of the two sisters?
- d. Which is more tall of the two sisters?

51. Complete the following sentence by using the superlative degree of the adjective given in the bracket.

Padmini was the _____ woman in her village. (good)

- a. most good c. goodest
- b. best d. more good

52. "How are you solving this sum?" Change the given sentence to PASSIVE VOICE:

- a. How is that sum being solved by you?
- b. How are that sum being solved by you?
- c. How is this sum being solved by you?
- d. How are you going to solve this sum?

53. "A sweet song is sung by a great singer." Change the given sentence into ACTIVE VOICE:

- a. A great singer sings a sweet song.
- b. A great singer sing a sweet song.
- c. A great singer is singing a sweet song.
- d. A great singer has been singing a sweet song.

54. Change the following sentence into DIRECT form of speech: **The teacher says that the earth is round in shape.**

- a. The teacher said, "The earth is round in shape."
- b. The teacher says, "The earth was round in shape."
- c. The teacher says, "The earth will be round in shape."
- d. The teacher says, "The earth is round in shape."

55. "Are the players not very tired?" State the TENSE of the given sentence:

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

56. Vasco da Gama _____ a new sea route. (discover) Change the verb in the bracket to PAST PERFECT TENSE:

- a. has discovered
- b. have discovered
- c. had discovered
- d. discovered

57. The solar eclipse _____ (occur) on this new moon day. Change the verb in the bracket to SIMPLE FUTURE:

- a. occurs c. will occur
- b. will be occurring d. will have occurred

58. _____ is the antonym of BROAD.

- a. narrow c. small
- b. little d. deep

59. Meaning of LEGENDARY is _____

- a. humbleness
- b. very famous and talked about
- c. fascination
- d. removal

60. Fill in the following blank with a preposition:

Christians celebrate the birth of Jesus _____ 25th December.

- a. on c. in
- b. at d. of

SECTION D: SOCIAL SCIENCE

61. The Imphal Valley is a/an

- a. Dispositional Plain
- b. Erosional Plain
- c. Lacustrine Plain
- d. Uplifted Plain

62. Limestone is a _____ rock.

- a. Igneous c. Metamorphic
- b. Sedimentary d. Fossil

63. The molten part of the Upper Mantle is called

- a. Core c. Asthenosphere
- b. Lithosphere d. Mantle

64. Which gas is associated with Global Warming?

- a. Hydrogen d. Nitrogen
- b. Carbon Dioxide d. Oxygen

65. The North Temperate Zone is located in between

- a. Antarctic Circle and Tropic of Cancer
- b. Arctic Circle and Tropic of Cancer
- c. Tropic of Capricorn and Tropic of Cancer
- d. Arctic Circle and Equator

66. The condition of the atmosphere at a particular place and time is called

- a. Weather c. Climate
- b. Pressure d. Temperature

67. The salinity is very low in Polar Regions. Why?

- a. Temperature is very high
- b. Rate of evaporation is very low
- c. No human habitation
- d. All the above

68. Which one is not a natural disaster?

- a. Flood c. Earthquake
- b. Oil Spills d. Tsunami

69. Which pair is NOT correct?

- a. Pampas - South America
- b. Veld - South Africa
- c. Steppes - Eurasia
- d. Prairies - India

70. Which type of forest is also known as TAIGA?

- a. Mediterranean Forests
- b. Coniferous Forests
- c. Deciduous Forests
- d. Monsoon Forests

71. Who founded the Mongols Dynasty?

- a. Akbar
- b. Timur
- c. Chenghis Khan
- d. Kublai Khan

72. The lowest class in a Feudal Society was

- a. The Knights
- b. The Serfs
- c. The Dukes
- d. The Barons

73. The Tripartite Struggle was fought between three parties for the control of

- a. Surat
- b. Kanauj
- c. Delhi
- d. Indus valley

74. Which dynasty built the famous Rock-Cut-Temple at Ellora?

- a. The Palas
- b. The Rastrakutas
- c. The Pratiharas
- d. The Cholas

75. The Ahom Dynasty is associated with which present-day region?

- a. Orissa
- b. Myanmar
- c. Assam
- d. Manipur

76. During which king's reign, the growth of kingdom of Manipur reached its zenith?

- a. King Kyamba
- b. Kabomba
- c. Khagemba
- d. Mungyangba

77. Which one is a WRONG statement about the Manipur State Constitution Act, 1947?

- a. The Maharaja was the head of the State
- b. The Executive authority was in the hand of Council of Minister
- c. Member of the Council of Minister were elected for a term of 5 years.
- d. Election was on the basis of Universal Adult Franchise

78. Which one is not a National Political party?

- a. BJP
- b. NPP
- c. INC
- d. MPP

79. What is the full form of EVM, a machine used on Election Day?

- a. Electrical Voting Machine
- b. Election Voting Machine
- c. Electronic Voting Machine
- d. Electronic Voter Machine

80. There shall be at least _____ sessions of a legislative assembly in a year.

- a. 2
- b. 4
- c. 3
- d. 5

SECTION E : GENERAL AWARENESS

81. Ras Lila belongs to which category of dance?

- a. Cultural dance
- b. Classical Dance
- c. Ritual dance
- d. Folk dance

82. The game of KANG (A Manipuri traditional game) is played by

- a. Men only
- b. Children only
- c. Women only
- d. Both men & Women

83. We celebrate Manipuri Language Day on

- a. 20 August
- b. 13 August
- c. 29 August
- d. 21 January

84. Which historical incident of Manipur was associated with the recently demolished Raj Bhawan located in Shillong?

- a. Anglo-Manipur War
- b. Seven Years Devastation
- c. Manipur Merger Agreement
- d. Statehood of Manipur

85. Where is the Kangkhui Cave?

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

86. The first Indian National Tricolor flag was hoisted on Indian soil at

- a. Port Blair
- b. Shillong
- c. Moirang
- d. Calcuta

87. Who is the present Chief Secretary of Manipur?

- a. Anusuiya Uikey
- b. Ajay Kumar Bhala
- c. Kuldeep Singh
- d. Puneet Kumar Goel

88. Kabow valley was a part of the Kingdom of Manipur. Now it is located in which country?

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

89. Manipur merged with the Indian Union on

- a. 21st Sept, 1947 c. 21st Jan, 1972
- b. 15th Oct, 1949 d. 15th Oct, 1947

90. Which festival is NOT observed in Manipur?

- a. Ngan Ngai c. Bihu
- b. Kut d. Cheiraoba

91. Hjam Irabot died due to

- a. Typhoid c. Malaria
- b. Cholera d. Dysentery

92. Which one is NOT correct among the following options?

- | New District | Bifurcated From |
|----------------|-----------------|
| a. Kakching | Thoubal |
| b. Kangpokpi | Senapati |
| c. Jiribam | Imphal West |
| d. Tengenoupal | Chandel |

93. Which player is NOT matched with its associated game?

- | Player | Associated game |
|--------------|-----------------|
| a. Mirabai | Weight Lifting |
| b. Sarita | Boxing |
| c. Marry Kom | Wrestling |
| d. Meiraba | Batminton |

94. India Government introduced a scheme "One Nation One Student ID" for all students for issuing a card. What is the name of the Card?

- a. Aadhar c. APAAR
- b. PAN d. Voter Card

95. A festival is celebrated every year in Tamenglong to welcome and protect a migratory bird. What is the name of the migratory bird?

- a. Hornbill c. Amur Falcon
- b. Parrot d. Nongin

96. In a year Gandhi Jayanti falls on Thursday, what will be the day on Children's Day in the same year?

- a. Friday c. Thursday
- b. Wednesday d. Sunday

97. What will come in the next in the series?

- A, AB, ABC, _____
- a. ABCE c. ABCD
 - b. ABCDE d. ACDE

98. Select the odd month from the following.

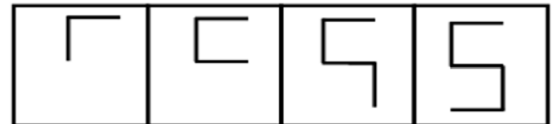
- a. February c. April
- b. June d. November

99. How many rectangles are there in the figure?



- a. 8 c. 9
- b. 6 d. 4

100. What comes next in the following series?



- | | | | |
|---|--|---|--|
| a | | c | |
| b | | d | |