

Booklet No

3rd STATE LEVEL MTGS COMPETITION, 2024

Organised by:

Mission Transformation of Government Schools (MTGS)**QUESTION BOOKLET**
CLASS VII**(Subjects: MATHEMATICS, SCIENCE, SOCIAL SCIENCE & GENERAL AWARENESS)****INSTRUCTIONS TO CANDIDATES**

1. This booklet contains 100 questions and each question carries equal marks.
2. This Question Booklet contains three Sections :
Section A - Mathematics (25 Questions)
Section B – Science (25 Questions)
Section C – Social Science (25 Questions)
Section D – General Awareness (25 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, 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. Before submitting the OMR Answer Sheet to the invigilator, the candidate should verify that all the entries are made correctly filled up and it is duly signed by the invigilator.
11. 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. What is the ratio of 15 meters to 60 centimetres?
a. 3:4 c. 4:3
b. 1:4 d. 25:1
2. A school has 1200 students, of which 500 are girls. What is the ratio of boys to girls?
a. 5:7 c. 12:5
b. 5:12 d. 7:5
3. Find the value of $9 \times (-3) \times (-6)$.
a. -18 c. -162
b. 162 d. 27
4. Which of the following statements is true?
a) The line segment joining a vertex of a triangle to the mid-point of its opposite side is called an altitude of the triangle
b) The perpendicular line segment from a vertex of a triangle to its opposite side is called a median of the triangle.
c) The measure of any external angle of a triangle is not equal to the sum of measure of its interior opposite angles.
d) In a right angled triangle, the square on the hypotenuse is equal to the sum of the squares on its legs.
5. Which of the following is equivalent to $\frac{4}{12}$?
a. $\frac{6}{8}$ c. $\frac{24}{48}$
b. $\frac{36}{72}$ d. $\frac{16}{48}$
6. Find the value of $38.53 \div 1000$
a. 3.853 c. 3853
b. 0.03853 d. 0.3853
7. The sum of three times a number and 11 is 32. Find the number.
a. 7 c. 22
b. 14 d. 10
8. A submarine is 400 meters below sea level. It rises 180 meters and then dives 120 meters. What is the final position of the submarine?
a. 320 meters below sea level
b. 330 meters above sea level
c. 340 meters below sea level
d. 350 meters above sea level
9. A man borrowed ₹1000 at a simple interest rate of 10% per annum. How much interest will he pay after 4 years?
a. ₹ 100 c. ₹ 200
b. ₹ 300 d. ₹ 400
10. The area of a square and a rectangle are equal. If the side of the square is 40 m and the breadth of the rectangle is 25 m, find the perimeter of the rectangle.
a. 100 meters c. 178 meters
b. 80 meters d. 200 meters
11. A path 5 m wide runs along the inside of a square with a side length of 50 m. Find the cost of the cementing it at the rate of ₹ 75 per 10 m^2 .
a. ₹ 6000 c. ₹ 6700
b. ₹ 6750 d. ₹ 5000
12. A car runs 16 km using 1 litre of petrol. How much distance will it cover using $2\frac{3}{4}$ litres of petrol?
a. 25 km c. 44 km
b. 60 km d. 32 km
13. What is the property that states the sum of the measures of all three angles of a triangle is 180 degrees?
a) Angled Sum property
b) Pythagoras property
c) Equilateral Property
d) Right Angled Property
14. The diameter of Earth is 12756000 meter. Exponential form will be
a. 1.2756×10^6 c. 1.2756×10^7
b. 1.2756×10^8 d. 1.2756×10^9
15. A shopkeeper sold an item for ₹1,200, making a 25% loss. What was the cost price?
a. ₹1,000 c. ₹ 900
b. ₹ 1400 d. ₹ 1600
16. Find the area of a rectangle whose length is 7.5 cm and breadth is 3.5 cm.
a. 262.5 cm^2 c. 26.25 cm^2
b. 2.625 cm^2 d. 2625 cm^2
17. Find the value of $2a^2b + 2ab^2 + ab$, if $a = 2$ and $b = 3$.
a. 42 c. 66
b. 52 d. 72
18. When a transversal intersects two parallel lines, which of the following angles are equal?
a. Alternate interior angles
b. Corresponding angles
c. Interior angles on the same side
d. Both a and b

19. Which of the following is in decreasing order

- a. $\frac{2}{3}, \frac{7}{9}, \frac{8}{15}, \frac{9}{11}$
 b. $\frac{8}{15}, \frac{9}{11}, \frac{7}{9}, \frac{2}{3}$
 c. $\frac{9}{11}, \frac{7}{9}, \frac{2}{3}, \frac{8}{15}$
 d. $\frac{9}{11}, \frac{8}{15}, \frac{7}{9}, \frac{2}{3}$

20. Which of the following statements is incorrect?

- a. Subtracting a negative integer is the same as adding a positive integer.
 b. The sum of two positive integers is always positive.
 c. The product of a positive and a negative integer is always positive.
 d. The sum of two negative integers is always negative.

21. If $x = 12$, find the value of $x^3 - 3(x + 10)$

- a. 1462 c. 1662
 b. 1892 d. 2356

22. Raju's father's age is 5 years more than three times Raju's age. Find the present age of Raju, if his father is 44 years old.

- a. 10 Years c. 49 years
 b. 44 years d. 13 years

23. Which of the following is true?

- a. The meeting point of two lines is called a crossing point.
 b. A parallel line is a line that intersects two or more lines at distinct points.
 c. Each pair of interior angles on the same side of the transversal are supplementary.
 d. An angle is formed when two lines or line segments do not have a common vertex.

24. What is the value of an angle that is complementary to a 55° angle?

- a. 125° c. 45°
 b. 35° d. 75°

25. Simplify :

$$\left(\frac{3^7}{3^2}\right) \times 3^5$$

- a. 3^3 c. 3^7
 b. 3^{10} d. 3^8

SECTION – B (SCIENCE)

26. What is the ultimate source of energy of all living organisms?

- a. Electricity c. Sun
 b. Hydro power d. Wind Energy

27. Which one of the following pair is not correct?

- a. Plants - Autotrophs
 b. Mango Tree - Heterotrophs
 c. Cuscuta - Insectivorous Plant
 d. Fungi - Saprotroph

28. Which part of the plant takes in carbon dioxide from the air for photosynthesis?

- a. Root hair c. Stomata
 b. Leaf vein d. Petals

29. A clinical thermometer reads temperature range

- a. 28°C to 36°C c. 35°C to 42°C
 b. 38°C to 46°C d. 28°C to 56°C

30. By which process, the heat from the sun comes to us?

- a. Convection c. Conduction
 b. Radiation d. None of these

31. An iron ball at 30°C is dropped in a container containing water at 30°C . The heat will

- a. Flow from iron to water
 b. Not flow from one another
 c. Flow from water to iron ball
 d. Increase the temperature of both

32. In an neutralization reaction

- a. An acid and a base is mixed
 b. A Salt is formed
 c. Water is produced
 d. All of these are true.

33. What is the chemical name of Quick Lime?

- a. Calcium Bicarbonate
 b. Calcium Hydroxide
 c. Calcium Oxide
 d. Potassium Hydroxide

34. Which one of the following matching is correct?

- a. Lactic Acid - Spinach
 b. Formic Acid - Soap
 c. Acetic Acid - Ant's Sting
 d. Citric Acid - Lemon

35. During galvanization, a layer of which metal is coated/deposited on iron metals to prevent from rusting.

- a. **Zinc** c. Magnesium
- b. Silver d. Gold

36. The chemical formula of Calcium carbonate is

- a. **CaCO₃** c. Ca(CO)₃
- b. Ca(OH)₂ d. Cl(CO)₃

37. Anaerobic respiration occurs in

- a. absence of Carbon dioxide
- b. presence of Carbon dioxide
- c. **absence of Oxygen**
- d. presence of Oxygen

38. Earthworms breathe through their

- a. Lungs c. **Skins**
- b. Gills d. Tracheae

39. Which types of blood component transport oxygen in our body?

- a. **RBC** c. WBC
- b. Platelets d. None of these

40. The food components in plants are transported through

- a. **Phloem** c. Xylem
- b. Stems d. Leaf

41. Which blood vessels carry blood from heart to other parts of our body?

- a. Veins c. **Arteries**
- b. Capillaries d. All of these

42. Choose the incorrect statement?

- a. Flowers are the reproductive part of a plant
- b. **During pollination pollen grains are transferred from stigma to anthers**
- c. After fertilization zygotes develop into an embryo.
- d. Vegetative propagation is occurred in rose plant.

43. A train takes 4 hours to cover a distance of 240 Km. Calculate the speed of the train?

- a. **60 km/hr** c. 70 km/hr
- b. 80 km/hr d. 90 km/hr

44. Which one is not a conductor?

- a. Gold c. Silver
- b. Copper d. **Rubber**

45. In an electrical circuit, the battery provides

- a. Resistance c. **Voltage difference**
- b. Safety to the circuit d. All of these

46. Which type of lens is used in a magnifying glass?

- a. **Convex lens** c. Concave lens
- b. Plane glass d. both (a) and (b)

47. Which type of lens is known as diverging lens?

- a. Convex lens c. **Concave lens**
- b. Plane glass d. None of these

48. Rahul is observing his image in a plane mirror which is 1.5 meters away from him. The distance between the mirror and Rahul is

- a. 1.5 Meter c. 2 Meter
- b. **3 Meter** d. 3.5 Meter

49. Which one of the following is not a forest product?

- a. Gum c. Plywood
- b. Honey d. **Kerosene**

50. A car moves with a speed of 40 km/hr for 15 minutes and then with a speed of 60 km/hr for the next 15 minutes. The total distance covered by the car is

- a. 100 km c. **25 km**
- b. 15 km d. 10 km

SECTION: C (SOCIAL SCIENCE)

51. The plateaus which is enclosed by mountains is called ____

- a. **Intermontane Plateaus**
- b. Piedmont Plateau
- c. Continental Plateau
- d. Dissected Plateau

52. Which one is not a Sedimentary Rock?

- a. Limestone c. Shale
- b. **Granite** d. Sandstone

53. Manipur is located in which heat zone

- a. Torrid Zone c. Frigid Zone
- b. **Temperate Zone** d. None above

54. Which gas is responsible for depletion of Ozone Layer?

- a. Nitrogen c. **CFCs**
- b. Carbon Dioxide d. Nitrogen Dioxide

55. A Barometer measures

- a. **Air pressure**
- b. Earthquake
- c. Air Temperature
- d. Wind Speed

56. What is the deepest point on earth?

- a. Java Trench
- b. Tonga Trench
- c. **Mariana Trench**
- d. Sunda Trench

57. In polar areas where evaporation is low, the salinity is

- a. Very high
- b. Salinity is Medium
- c. **Very Low**
- d. All of these

58. What is/are the impact(s) of Loktak Lake due to the commission of Ithai Dam?

- a. Increase in water level in Loktak Lake
- b. Several indigenous fishes have disappeared
- c. Damage to the production of crops
- d. **All of these.**

59. Which region is known as the "Orchard of the World"?

- a. Temperate Deciduous forests
- b. **Mediterranean Forests**
- c. Coniferous Forests
- d. Tropical Grasslands

60. Keibul Lamjao National Park was declared as a National Park in

- a. 1966
- b. 1992
- c. **1977**
- d. 1993

61. Khongjaingamba Ching Wildlife sanctuary is located in which district of Manipur?

- a. Thoubal
- b. Kakching
- c. Imphal West
- d. **Bishnupur**

62. The medieval period of Indian history spans which of the following years?

- a. Fourth to fifteen Century
- b. Sixth to fifteen Century
- c. Seventh to Seventeen Century
- d. **Eighth to Eighteen Century**

63. Who is credited with discovering the sea route to India around the Cape of Good Hope?

- a. Columbus
- b. Ferdinand Magellan
- c. **Vasco da Gama**
- d. Thomas Roe

64. Who was the founder of the Arab Empire?

- a. Chenghis Khan
- b. Tughril Beg
- c. Timur
- d. **Prophet Mohammad**

65. The famous bronze statues of Nataraj belonged to

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

66. Who was the greatest ruler of the Chahamanas dynasty?

- a. Sultan Mahmud
- b. Prithivraj Chauhan
- c. Rajaraja I
- d. Gopala

67. During which reign the Meitei Pangal are said to have come to Manipur?

- a. Khagemba
- b. Kabomba
- c. Kyamba
- d. Loiyumba

68. Who introduced the recording of important events in Cheitharol Kumbaba?

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

69. What does "Universal Adult Franchise" mean?

- a. Voting rights limited to educated citizens
- b. **The rights of all citizens to vote irrespective of gender, caste or wealth**
- c. Voting rights granted only to men
- d. Voting rights based on property ownership

70. Which act contains the rules and regulations for elections in India?

- a. The Election of People Representation Act, 1950
- b. **The Representation of the People Act, 1950**
- c. The Representation of the People Act, 1947
- d. The Election of People Representation Act, 1948

71. When was the Constitution of India adopted?

- a. 26th January, 1950
- b. **26th November, 1949**
- c. 26th January, 1949
- d. 26th November, 1950

72. The Council of Minister is collectively responsible to the

- a. **State Assembly**
- b. The Governor
- c. The Speaker
- d. Chief Justice of High Court

73. How many Assembly Constituencies are there in Manipur?

- a. 32
- b. 60
- c. 45
- d. 80

74. The International Women's Day is observed on

- a. 8th March
- b. 11th July
- c. 16th October
- d. 12th December

75. Who was the editor of "MEITEI CHANU" the first Manipuri hand written journal?

- a. Bir Tikendrajit
- b. Hijam Irabot
- c. Lamabam kamal Singh
- d. RK Sitaljit

SECTION D : GENERAL AWARENESS

76. Who is the present Governor of Manipur?

- a. Anusuiya Uikey
- b. Lakshman Prasad Acharya
- c. Kuldip Singh
- d. N. Biren Singh

77. What is the full form of NRC?

- a. National Record of Citizens
- b. National Record of Constitution
- c. National Registry of Citizens
- d. National Register of Citizens

78. Recently Manipur government extends AFSPA in hill districts for 6 months. What is the full form of AFSPA?

- a. Armed Forces Special Action
- b. Armed Forces Special Power Act
- c. Armed Forces Special Party Act
- d. Army Force Special Power Activity

79. The disease recently spreading in Manipur due to mosquito bites is

- a. Diarrhoea
- b. Dengue
- c. AIDS
- d. Cholera

80. Manipur got the status of a full-fledged State on

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

81. What is the percentage of forest cover of Manipur?

- a. 35 %
- b. 80%
- c. 76%
- d. 56%

82. Which ancient text chronicles Manipur's history from 33AD?

- a. Kangla Purana
- b. Cheithrol Kumbaba
- c. Ningthourol Lambuba
- d. Manipur Purana

83. Which lake of Manipur is listed in the prestigious Ramsar Site?

- a. Khuga Lake
- b. Loktak Lake
- c. Ikop Lake
- d. Khoidum Lake

84. How many players are there in the game of Sagol Kangjei?

- a. 7
- b. 10
- c. 5
- d. 11

85. What is the name of the traditional Manipuri martial art form?

- a. Wusu
- b. Sagol Kangjei
- c. Thang-Ta
- d. Khong Kangjei

86. What is the Manipuri version of hockey played with a ball made of bamboo root and a bamboo stick?

- a. Sagol Kangjei
- b. Thang-Ta
- c. Khong Kangjei
- d. Mukna

87. "The Amur Falcon Festival" is celebrated in which district of Manipur?

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

88. Which scheme provides hot cooked meal to all elementary school children in the country?

- a. School Fagathansi
- b. PM Shri Scheme
- c. Mid-Day Meal Scheme
- d. MGNERGA

89. Which tourist spot is not located in Manipur?

- a. Khoupum Waterfall
- b. Sendra
- c. Cherrapunji
- d. Dzuko Valley

90. Which district is the home of State flower, state bird and state tree?

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

91. Which king renamed Kangleipak to Manipur?

- a. Churachand Singh
- b. Garibniwaz
- c. Bhagyachandra
- d. Chandrakirti

92. Which state produced most of the orange of Manipur?

- a. Thoubal
- b. Imphal east
- c. **Tamenglong**
- d. Senapati

93. On 13th August, we celebrate Patriots' Day every year in Manipur. Whom do we commemorate on this day?

- a. Bir Tikendrajit and Gambhir Singh
- b. Bir Tikendrajit and Surchandra
- c. **Bir Tikendrajit and Thangal General**
- d. Paona Brajabasi and Thangal General

94. Which one is not a neighbouring state of Manipur?

- a. Assam
- b. **Arunachal Pradesh**
- c. Mizoram
- d. Nagaland

95. Which traditional dance is not performed during the Lai Haraoba Festival in Manipur?

- a. Maibi Jagoi
- b. Thougal jagoi
- c. **Ras Lila**
- d. Leima Jagoi

96. When you remove all the letters 'A' and 'B' from BASBABTAUABDBAEBNATBA, you get

- a. STAR
- b. **STUDENT**
- c. ASTRAY
- d. EDUCATION

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

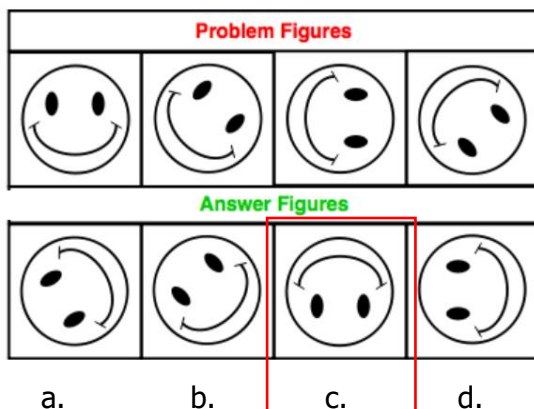
ABCD, BCDE, CDEF, _____

- a. CDEG
- b. DEGF
- c. **DEFG**
- d. EFGH

98. The meaningful word that cannot be formed from the word "EDUCATION" is

- a. CAT
- b. NOTICE
- c. ACTION
- d. **MOTION**

99. What comes next in the following series?



100. What comes next in the following series?

