

**J&K SAINIK SCHOOL MANASBAL
TEST BOOKLET-VI**

ROLL NUMBER

140066

Test Booklet No. & Series

140066

B

Name of the Candidate:

Signature of the Candidate:

Time $2\frac{1}{2}$ Hours

Maximum Marks: 270

GENERAL INSTRUCTIONS FOR CANDIDATE

1. This booklet comprises of five sections (**22 Pages**) comprising of **135 Questions** with Section A - **20** (English), B - **35** (Reasoning), C - **15** (Social Science/GK), D - **45** (Mathematics) & E - **20** (General Science). Each question has 2 marks for correct answer.
2. A separate OMR sheet will be provided to mark the correct answer at the proper place on the OMR sheet.
3. Use only blue/black ball pen to fill your OMR sheet. Use of pencil is not allowed.
4. For every question there are four probable answers out of which only one is the most appropriate / correct. The candidate is required to select the correct answer and darken the bubble against the correct option provided against each question in the OMR sheet. For example, if your answer for a particular question is option C, fill the bubble as given below.



5. Overwriting, erasing or cutting on OMR is not allowed. Using of correction fluid/whitener is also not allowed on OMR.
6. Rough work must be done only on this Booklet at the portion specified for the same.
7. The time allowed is 150 minutes.
8. There is no Negative marking.
9. A candidate is eligible for admission if he secures a minimum of **25% marks** in each section and **40% marks** in aggregate of all the sections. However, admission will be based on relative merit of the candidate followed by medical fitness and verification of requisite documents.

Signature of Invigilator

Signature of Centre Superintendent

SECTION A: ENGLISH

(Total Questions – 20)

Max Marks – 40)

Q1. Which of the following words expresses sudden emotion?

- (a) Wow! (b) Run
(c) Quickly (d) Table

Q2. Select the correctly arranged noun phrase:

- (a) beautiful very flower (b) very beautiful flower
(c) flower very beautiful (d) beautiful flower very

Q3. Find the word closest in meaning to “intelligent”:

- (a) foolish (b) clever
(c) weak (d) dull

Q4. Which word is opposite in meaning to “victory”?

- (a) success (b) defeat
(c) win (d) prize

Q5. Identify the word that rhymes with “light”:

- (a) night (b) late
(c) let (d) lot

Q6. Fill in the blank with the suitable preposition from the alternatives given below:

She is good _____ mathematics.

- (a) at (b) in
(c) on (d) for

Q7. Select the correct article to complete the sentence:

He bought ___ umbrella.

- (a) a (b) an
(c) the (d) none of these

Q8. Which of the following is spelled correctly?

- | | |
|-----------------|-----------------|
| (a) enviornment | (b) environment |
| (c) enviornment | (d) enviroment |

Q9. Find the word that is similar in meaning to “brave”:

- | | |
|------------|----------|
| (a) coward | (b) bold |
| (c) weak | (d) calm |

Q10. Which word has the opposite meaning of “ancient”?

- | | |
|-------------|----------|
| (a) modern | (b) old |
| (c) antique | (d) past |

Q11. In the sentence “She is a happy girl,” identify the describing word.

- | | |
|-----------|----------|
| (a) She | (b) girl |
| (c) happy | (d) is |

Q12. Choose the correct form of the verb to complete the sentence:

He _____ to school every day.

- | | |
|-----------|----------|
| (a) go | (b) goes |
| (c) going | (d) gone |

Q13. Complete the sentence using the correct preposition of place:

The sun rises _____ the east.

- | | |
|--------|----------|
| (a) on | (b) at |
| (c) in | (d) from |

Q14. Pick the correct possessive form to complete the sentence:

This is _____ book.

- | | |
|--------|------------|
| (a) me | (b) mine |
| (c) I | (d) myself |

SECTION B: INTELLIGENCE / REASONING

(Total Questions – 35)

Max Marks – 70)

Q21. Using $A = 1$, $B = 2$, $C = 3$, find the numerical value of CAB.

(a) 312

(b) 123

(c) 321

(d) 213

Q22. Which of the following numbers is not prime?

(a) 7

(b) 11

(c) 13

(d) 15

Q23. Find the next number by observing the pattern of increasing differences.

3, 6, 11, 18, ____

(a) 25

(b) 27

(c) 29

(d) 30

Q24. Complete the analogy based on function.

Pencil : Write :: Brush : ____

(a) Paint

(b) Draw

(c) Colour

(d) Ink

Q25. Determine the next number in the series using the given pattern.

2, 5, 10, 17, ____

(a) 24

(b) 26

(c) 28

(d) 30

Q26. In a row of 12 students, which position represents the middle?

(a) 5th

(b) 6th

(c) 7th

(d) 8th

Q27. Starting from M, which letter is third to its right in the English alphabet?

- (a) O (b) P
(c) Q (d) R

Q28. Identify the number that is not a perfect square.

- (a) 121 (b) 144
(c) 169 (d) 150

Q29. At exactly 3:00, what angle is formed between the hour and minute hands of a clock?

- (a) 60° (b) 90°
(c) 120° (d) 180°

Q30. Read the statements carefully and choose the correct conclusion.

All roses are flowers. Some flowers are red.

- (a) All roses are red
(b) Some roses may be red
(c) No rose is red
(d) All flowers are roses

Q31. Among the following numbers, one does not follow the same pattern. Identify it.

8, 27, 64, 81

- (a) 8 (b) 27
(c) 64 (d) 81

Q32. Look at the alphabetical sequence and choose the next term.

AB, DE, GH, _____

- (a) JK (b) IJ
(c) KL (d) MN

Q33. Find the missing number by applying the same relationship.

$$3 : 9 :: 5 : ?$$

- (a) 10 (b) 15
(c) 25 (d) 20

Q34. Complete the number series by identifying the pattern.

$$2, 6, 12, 20, \underline{\hspace{2cm}}$$

- (a) 30 (b) 24
(c) 28 (d) 32

Q35. When the word LEFT is reflected in a vertical mirror, which option shows the correct image?

- (a) TFEL (b) TFEJ
(c) T F E L (d) EF TL

Q36. From the given options, select the animal that is different from the rest.

- (a) Cow (b) Goat
(c) Tiger (d) Sheep

Q37. A coding rule is applied as follows:

$$\text{CAT} = 24 \text{ and } \text{DOG} = 26.$$

Using the same rule, find the value of BAT.

- (a) 21 (b) 23
(c) 25 (d) 27

Q38. Continue the pattern in the series and select the next number.

$$5, 10, 20, 40, \underline{\hspace{2cm}}$$

- (a) 60 (b) 80
(c) 70 (d) 90

Q39. Three of the following pairs show a correct object–function relationship.

Choose the incorrect pair.

(a) Pen – Write

(b) Knife – Cut

(c) Book – Read

(d) Chair – Sleep

Q40. In a letter transformation pattern, EAST becomes FBTU. Apply the same rule to WEST.

(a) XFTU

(b) XFTV

(c) XFTT

(d) XFTW

Q41. A is the brother of B, and B is the sister of C. What is A's relation to C?

(a) Brother

(b) Sister

(c) Cousin

(d) Father

Q42. Identify the next term in the sequence of perfect squares.

1, 4, 9, 16, ____

(a) 20

(b) 25

(c) 36

(d) 30

Q43. One number in the list does not share the same property. Find it.

(a) 15

(b) 21

(c) 27

(d) 31

Q44. Arrange the following words in proper alphabetical order.

Mango, Apple, Banana

(a) Mango, Apple, Banana

(b) Apple, Banana, Mango

(c) Banana, Apple, Mango

(d) Apple, Mango, Banana

Q45. Fill in the missing letter in the given sequence.

A, C, F, J, ____

- (a) M (b) O
(c) P (d) N

Q46. Observe the pattern in the following operations and find the result.

$$7 + 3 = 73 \text{ and } 8 + 4 = 84$$

What is $9 + 5$?

- (a) 95 (b) 14
(c) 59 (d) 45

Q47. Choose the word that completes the analogy correctly.

Water : Drink :: Food : ____

- (a) Eat (b) Cook
(c) Buy (d) Taste

Q48. Which of the following shapes has neither sides nor vertices?

- (a) Triangle (b) Circle
(c) Square (d) Rectangle

Q49. Complete the series based on square numbers.

4, 9, 16, 25, ____

- (a) 30 (b) 36
(c) 49 (d) 40

Q50. In a letter coding system, MONDAY becomes NPOEBZ. Apply the same rule to TUESDAY.

- (a) UVFTEBZ (b) UVFTEBZ
(c) UVFTFZB (d) UVFTECY

Q51. Select the word that does not belong to the group.

- (a) Rose (b) Lotus
(c) Tulip (d) Mango

Q52. Apply the same numerical relation to find the missing value.

$$6 : 36 :: 8 : ?$$

- (a) 48 (b) 56
(c) 64 (d) 72

Q53. Identify the item that is not a type of furniture.

- (a) Table (b) Chair
(c) Bed (d) Car

Q54. Based on Earth's rotation, the sun rises in the east. Where does it set?

- (a) North (b) West
(c) South (d) East

Q55. Continue the reverse alphabetical sequence.

Z, X, V, T, ___

- (a) R (b) S
(c) Q (d) P

SECTION C: SOCIAL SCIENCE / GENERAL

KNOWLEDGE

(Total Questions – 15

Max Marks – 30)

Q56. What is the name of a traditional water harvesting structure found in Rajasthan?

- (a) Canal system (b) Johad
(c) Dam (d) Tube well

Q57. Movement of tectonic plates most commonly leads to which natural event?

- (a) Floods (b) Earthquakes
(c) Cyclones (d) Droughts

Q58. Why did early humans move from one place to another?

- (a) Travel for pleasure (b) Search for food
(c) Avoid animals (d) Build cities

Q59. Which instrument is used to measure temperature?

- (a) Barometer (b) Thermometer
(c) Hygrometer (d) Anemometer

Q60. From which monument is India's National Emblem derived?

- (a) Sanchi Stupa (b) Ashoka Pillar at Sarnath
(c) Qutub Minar (d) India Gate

Q61. Who is recognized as the founder associated with Jainism?

- (a) Gautama Buddha (b) Mahavira
(c) Guru Nanak (d) Ashoka

Q62. In which state is the festival of Bihu traditionally celebrated?

- (a) Punjab (b) Assam
(c) Gujarat (d) Kerala

Q63. Which of the following correctly represents India's three armed forces?

- (a) Police, Navy, Air Force
(b) Army, Navy, Air Force
(c) Army, Police, Coast Guard
(d) Navy, Police, Air Force

Q64. The FIFA World Cup is a major international tournament in which sport?

- (a) Cricket
- (b) Hockey
- (c) Football
- (d) Tennis

Q65. What is the primary objective of the United Nations?

- (a) Promote trade
- (b) Maintain international peace
- (c) Advance space research
- (d) Develop tourism

Q66. Who authored the famous song “VandeMataram”?

- (a) Rabindranath Tagore
- (b) Bankim Chandra Chatterjee
- (c) Mahatma Gandhi
- (d) Sarojini Naidu

Q67. Which one of the following is a renewable source of energy?

- (a) Coal
- (b) Petroleum
- (c) Solar energy
- (d) Natural gas

Q68. Harappan cities are especially known for which feature?

- (a) Stone temples
- (b) Planned drainage system
- (c) Large palaces
- (d) Iron tools

Q69. The equator divides the Earth into which two halves?

- (a) East and West
- (b) North and South
- (c) Upper and Lower
- (d) Land and Water

Q70. Which feature best defines a democratic system of government?

- (a) Rule by a king
- (b) Rule by the army
- (c) Rule by the people
- (d) Rule by judges

SECTION D: MATHEMATICS

(Total Questions – 45)

Max Marks – 90)

Q71. What is the measure of a right angle?

- (a) 60° (b) 45°
(c) 90° (d) 180°

Q72. A toy originally priced at ₹ 800 is sold for ₹ 640. What is the discount percentage?

- (a) 10% (b) 15%
(c) 20% (d) 25%

Q73. Calculate the mean of the first five natural numbers.

- (a) 3 (b) 2
(c) 4 (d) 5

Q74. How many sides are there in a hexagon?

- (a) 5 (b) 6
(c) 7 (d) 8

Q75. How would you describe a temperature of 15°C ?

- (a) Hot (b) Cold
(c) Moderate (d) Freezing

Q76. Add 0.25 and 0.5.

- (a) 0.75 (b) 0.25
(c) 0.5 (d) 1

Q77. If 6 workers complete a task in 3 days, how long would 1 worker take to finish it at the same rate?

- (a) 18 days (b) 9 days
(c) 3 days (d) 6 days

Q78. What is the angle formed on a straight line?

- (a) 180° (b) 90°
 (c) 360° (d) 45°

Q79. A fruit seller buys 50 apples for ₹ 200. If he sells them at ₹ 5 each, what is his total profit?

- (a) ₹ 50 (b) ₹ 60
 (c) ₹ 70 (d) ₹ 80

Q80. How many edges are present in a cube?

- (a) 8 (b) 12
 (c) 6 (d) 4

Q81. What the difference between the largest four-digit number and the smallest three-digit number?

- (a) 8999 (b) 9000
 (c) 9900 (d) 9899

Q82. Two school bells ring at intervals of 12 minutes and 18 minutes. Determine after how many minutes both bells will chime together again.

- (a) 24 (b) 36
 (c) 72 (d) 6

Q83. If a shop sells 5 identical pens for ₹ 75, what would be the total cost for buying 12 pens at the same rate?

- (a) 150 (b) 160
 (c) 180 (d) 200

Q84. Add $\frac{3}{4}$ and $\frac{5}{8}$ and express the result in its simplest fractional form.

- (a) $\frac{7}{8}$ (b) $\frac{11}{8}$
 (c) $\frac{13}{8}$ (d) $\frac{9}{8}$

- Q85.** Express the duration of 45 minutes as a ratio of 1 hour in its simplest form.
- (a) 3:4 (b) 4:3
(c) 1:3 (d) 3:5
- Q86.** A shopkeeper purchases an article for ₹ 400 and sells it for ₹ 480. Calculate the profit percentage.
- (a) 20% (b) 15%
(c) 10% (d) 25%
- Q87.** Find the value of $18 \div (3 \times 2)$
- (a) 6 (b) 3
(c) 9 (d) 12
- Q88.** Determine the average of the four consecutive numbers 12, 15, 18, and 21.
- (a) 15 (b) 16
(c) 17 (d) 18
- Q89.** Calculate 25% of 240.
- (a) 60 (b) 80
(c) 40 (d) 75
- Q90.** A rectangle measures 10 cm in length and 6 cm in breadth. Find its perimeter.
- (a) 32 cm (b) 60 cm
(c) 16 cm (d) 36 cm
- Q91.** Find the simple interest on ₹ 1000 at a rate of 10% per annum for 2 years.
- (a) 200 (b) 150
(c) 100 (d) 250

Q92. What is the complement of an angle measuring 35° ?

- (a) 65° (b) 145°
 (c) 55° (d) 75°

Q93. Convert 30°C into the Kelvin temperature scale.

- (a) 273 K (b) 303 K
 (c) 243 K (d) 330 K

Q94. Express a distance of 3 kilometres in metres.

- (a) 300 m (b) 3000 m
 (c) 30 m (d) 30000 m

Q95. Represent the number 49 using Roman numerals.

- (a) IL (b) XLIX
 (c) LIX (d) XXXIX

Q96. Identify the type of angle that measures more than 90° but less than 180° .

- (a) Acute (b) Right
 (c) Obtuse (d) Straight

Q97. How many distinct diameters can be drawn in a circle?

- (a) 1 (b) 2
 (c) Infinite (d) None

Q98. Calculate the volume of a cube whose sides are each 5 cm long.

- (a) 25 cm^3 (b) 125 cm^3
 (c) 100 cm^3 (d) 150 cm^3

Q99. Among the numbers 17, 19, 21, and 23, identify the composite number.

- (a) 17 (b) 19
 (c) 21 (d) 23

Q100. Which type of triangle has all sides of equal length?

- (a) Scalene (b) Isosceles
(c) Equilateral (d) Right

Q101. Convert the decimal 0.75 into its simplest fractional form.

- (a) $\frac{3}{4}$ (b) $\frac{7}{5}$
(c) $\frac{5}{4}$ (d) $\frac{75}{10}$

Q102. The shape obtained by all points in a plane that are equidistant from a fixed point is called:

- (a) rectangle (b) square
(c) circle (d) triangle

Q103. If a bus travels at 60 km/h, how much time will it take to cover 180 kilometers?

- (a) 2 hours (b) 3 hours
(c) 4 hours (d) 5 hours

Q104. Find the supplement of an angle measuring 110° .

- (a) 70° (b) 90°
(c) 80° (d) 60°

Q105. Arrange the fractions $\frac{1}{2}$, $\frac{3}{4}$, and $\frac{2}{3}$ in ascending order.

- (a) $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$
(b) $\frac{2}{3}$, $\frac{1}{2}$, $\frac{3}{4}$
(c) $\frac{3}{4}$, $\frac{2}{3}$, $\frac{1}{2}$
(d) $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{3}$

Q106. Determine the highest common factor (HCF) of 24 and 36.

- (a) 6 (b) 12
(c) 18 (d) 24

Q107. What is the successor of the number 999?

- (a) 1000 (b) 998
(c) 1001 (d) 9990

Q108. Which geometric figure extends infinitely in both directions?

- (a) Ray (b) Line segment
(c) Line (d) Angle

Q109. Calculate the perimeter of a square whose side measures 8 cm.

- (a) 16 cm (b) 24 cm
(c) 32 cm (d) 64 cm

Q110. Convert 1 litre into millilitres.

- (a) 100 ml (b) 10 ml
(c) 1000 ml (d) 10000 ml

Q111. Identify the prime number from the following: 15, 9, 13, 21.

- (a) 15 (b) 9
(c) 13 (d) 21

Q112. A bag contains 100 apples. If 30% of them are rotten, how many apples are rotten?

- (a) 20 (b) 25
(c) 30 (d) 35

Q113. If a number is divisible by both 2 and 5, which digit must it end with?

- (a) 0 (b) 5
(c) 2 (d) 10

Q114. Evaluate 7^2 .

- (a) 14 (b) 49
(c) 21 (d) 56

Q121. Which of the following food items is a rich source of vitamin C?

- (a) Rice
- (b) Orange
- (c) Fish
- (d) Milk

Q122. What deficiency causes rickets in children?

- (a) Vitamin A
- (b) Vitamin D
- (c) Iron
- (d) Calcium

Q123. Proteins are primarily found in:

- (a) Eggs and pulses
- (b) Butter and oil
- (c) Sugar and honey
- (d) Rice and wheat

Q124. Wool is obtained from:

- (a) Cotton plant
- (b) Silkworm
- (c) Sheep
- (d) Coconut tree

Q125. Which of the following is an example of a reversible change?

- (a) Burning paper
- (b) Freezing water
- (c) Cooking an egg
- (d) Rusting iron

Q126. When a liquid is mixed completely with another liquid, forming a uniform mixture, it is called:

- (a) Solution
- (b) Suspension
- (c) Colloid
- (d) Precipitate

Q127. The process of separating solid particles from a liquid using a filter is called:

- (a) Evaporation
- (b) Filtration
- (c) Distillation
- (d) Sedimentation

Q128. Expansion of metals on heating occurs because:

- (a) Particles gain kinetic energy and move faster
- (b) Particles shrink
- (c) Density increases
- (d) Electrons leave the atoms

Q129. Leaves with parallel veins are generally found in:

- (a) Monocot plants
- (b) Dicot plants
- (c) Gymnosperms
- (d) Ferns

Q130. The main function of joints in the human body is to:

- (a) Store energy
- (b) Allow movement
- (c) Produce blood cells
- (d) Protect bones

Q131. Which gait is typical of a horse?

- (a) Walk, Trot, Gallop
- (b) Crawl, Slither, Leap
- (c) Fly, Hover, Glide
- (d) Hop, Skip, Jump

Q132. Which of the following is considered a biotic component of an ecosystem?

- (a) Sunlight
- (b) Soil
- (c) Plants
- (d) Water

Q133. An example of a physical change is:

- (a) Rusting
- (b) Melting of ice
- (c) Burning of wood
- (d) Cooking rice

Q134. Light travels in:

- (a) Curves
- (b) Waves
- (c) Straight lines
- (d) Random directions

Q135. Which type of cell is used in an electric circuit to store energy?

- (a) Solar cell
- (b) Battery cell
- (c) Blood cell
- (d) Nerve cell