

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

**ROLL NUMBER**

**150015**

**Test Booklet No. & Series**

**150015 C**

**Name of the Candidate:**

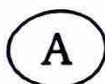
**Signature of the Candidate:**

**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** (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 Maximum Marks:-40)

**Q1.** It \_\_\_ rain today, the sky is very cloudy. (Use Modal)

- |           |           |
|-----------|-----------|
| (a) Could | (b) Must  |
| (c) Ought | (d) Might |

**Q2.** We enjoyed the beautiful \_\_\_ of the mountains.

- |           |          |
|-----------|----------|
| (a) Sight | (b) Site |
| (c) Cite  | (d) Seen |

**Q3.** Choose the correct spelling:

- |                   |                  |
|-------------------|------------------|
| (a) Accommodation | (b) Accomodation |
| (c) Accomodiation | (d) Acomodation  |

**Q4.** "To Break The Ice" means:

- |  |                       |
|--|-----------------------|
| (a) To hit the ice, so that it breaks. | (b) To feel very Cold |
| (c) To start a conversation            | (d) To ware clothes.  |

**Q5.** \_\_\_! I made a mistake in the calculation. (Use interjection)

- |            |           |
|------------|-----------|
| (a) Wow    | (b) Oops  |
| (c) Hurrah | (d) Bravo |

**Q6.** He plays cricket very well, \_\_\_? (Use suitable Question tag)

- |                |               |
|----------------|---------------|
| (a) Doesn't he | (b) Didn't he |
| (c) Does he    | (d) Did he    |

**Q7.** She speaks English \_\_\_. (Use Adverb)

- |              |                 |
|--------------|-----------------|
| (a) Fluent   | (b) More fluent |
| (c) Fluently | (d) Fluency     |

Q8. My brother and I have finished \_\_\_ homework. (Use Pronoun)

- (a) Ours (b) Yours  
(c) Theirs (d) Our

Q9. We found a couple in the jungle, there was a male lion with a \_\_\_\_. (Gender)

- (a) Lion (b) Lioner  
(c) Lione (d) Lioness

Q10. There were so many \_\_\_ in the store room.

- (a) Mices (b) Mice  
(c) Mouse (d) Mouses

Q11. Choose the correct sentence:

- (a) She is more senior than me. (b) She is senior than me.  
(c) She is seniorer than me. (d) She is senior to me.

**Read the passage and answer the questions given at the end:**

"The Himalayas play an important role in the climate of the Indian sub-continent. They act as a natural barrier that protects the region from the cold winds of central Asia. They also help in causing rainfall by blocking the monsoon winds because of this many major rivers such as Ganga, Yamuna and Brahmaputra originate from the Himalayas.

Q12. The Himalayas protect the Indian Subcontinent from:

- (a) Desert storms (b) Heavy Rains  
(c) Cold winds of Central Asia (d) Ocean tides

Q13. Choose the Antonym of "Abundant":

- (a) Plenty (b) Scarce  
(c) Enough (d) Ample

**Q14.** Choose the Synonym of "Ancient":

- (a) Modern (b) Recent  
(c) Old (d) New

**Q15.** She distributed the sweets \_\_\_\_ the children. (Use preposition)

- (a) In (b) Into  
(c) Between (d) Among

**Q16.** He is \_\_\_\_ University student. (Use Article)

- (a) A (b) An  
(c) The (d) No Article

**Q17.** In the sentence "She sings beautifully", "sings" is:

- (a) Linking verb (b) Auxiliary verb  
(c) Transitive verb (d) Intransitive verb

**Q18.** Choose the correct sentence:

- (a) She did not knew me. (b) She did not knows me.  
(c) She did not know me. (d) She had not know me.

**Q19.** She \_\_\_\_ to school everyday. (Correct form of verb)

- (a) Wents (b) Gone  
(c) Going (d) Goes

**Q20.** Change the voice: "She is writing a letter"

- (a) A letter is written by her. (b) A letter has been written by her.  
(c) A letter is being written by her. (d) A letter was being written by her.

## Section B: Intelligence / Reasoning

(Total Questions:-35 Maximum Marks:-70)

**Q21.** If all roses are flowers and some flowers are red, then:

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

**Q22.** A square is rotated 90°clockwise. The resulting figure is a

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

**Q23.** Which one doesn't belong to the group?

- (a) Wood
- (b) Glass
- (c) Soil
- (d) Copper

**Q24.** Find the odd one:

- (a) March
- (b) June
- (c) October
- (d) December

**Q25.** Bird: Fly :: Fish: \_\_\_\_

- (a) Walk
- (b) Crawl
- (c) Run
- (d) Swim

**Q26.** Which one does not belong to the group?

- (a) Potato
- (b) Onion
- (c) Tomato
- (d) Rice

**Q27.** If A=2, C=6 then Y=?

- (a) 50
- (b) 52
- (c) 54
- (d) 56

**Q28.** Which of the following does not relate to others?

- (a) 121
- (b) 144
- (c) 156
- (d) 169

**Q29.** If RED=27, BLUE=36, GREEN=?

- (a) 36
- (b) 45
- (c) 54
- (d) 63

**Q30.** Find the odd one:

- |             |          |
|-------------|----------|
| (a) Eagle   | (b) Lion |
| (c) Peacock | (d) Duck |

**Q31.** If DOG = EPH, then CAT = ?

- |         |         |
|---------|---------|
| (a) BAT | (b) DBU |
| (c) ZHU | (d) PHE |

**Q32.** If A:B = 3:5 and B = 20, A = ?

- |        |        |
|--------|--------|
| (a) 10 | (b) 12 |
| (c) 15 | (d) 20 |

**Q33.** If A:B = 2:3 and B:C = 4:5 then A:B:C = ?

- |             |           |
|-------------|-----------|
| (a) 8:12:15 | (b) 4:6:5 |
| (c) 2:3:5   | (d) 8:6:5 |

**Q34.** A car travels 180 kms at an average speed of 45km per hour. How much time will it take to travel a distance of 270km?

- |             |              |
|-------------|--------------|
| (a) 2 hours | (b) 6 hours  |
| (c) 8 hours | (d) 12 hours |

**Q35.** A train travels at a speed of 54 km per hour. Convert the speed to meters per second.

- |           |           |
|-----------|-----------|
| (a) 15m/s | (b) 16m/s |
| (c) 18m/s | (d) 20m/s |

**Q36.** If 1=1, 2=8, then 4=?

- |        |        |
|--------|--------|
| (a) 8  | (b) 16 |
| (c) 32 | (d) 64 |

**Q37.** If "DELHI" is coded as "FGNJK", then "JAMMU" will be coded as:

- |           |           |
|-----------|-----------|
| (a) LCOOW | (b) MDRRV |
| (c) NCSSD | (d) RSTUV |

Q38. Find the odd one:

- (a) 99
- (b) 121
- (c) 132
- (d) 142

Q39. LION: DEN :: DOG: \_\_\_\_

- (a) Stable
- (b) Cave
- (c) Burrow
- (d) Kennel

Q40. WOLF: PACK, ELEPHANT: HERD, LION: \_\_\_\_

- (a) Leap
- (b) Flock
- (c) Team
- (d) Pride

Q41. Find the missing member: 2, 6, 12, 20, \_\_\_\_

- (a) 28
- (b) 30
- (c) 32
- (d) 36

Q42. Cat: Kitten :: Lion: \_\_\_\_

- (a) Puppy
- (b) Calf
- (c) Cub
- (d) Kid

Q43. Pick out the odd one:

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

Q44. If "A" is father of "B", "C" is sister of "B", "C" is related to "A" as:

- (a) Mother
- (b) Daughter
- (c) Son
- (d) Father

Q45. Find the next letter: A, D, G, J, \_\_\_\_

- (a) K
- (b) L
- (c) M
- (d) N

Q46. If "SOUTH" is written as "RNTSG", then "NORTH" is written as:

- (a) NQGSM (b) MNQSG  
(c) GSTRN (d) QSMNG

Q47. Which of the following has the maximum sides?


- (a) Pentagon (b) Octagon  
(c) Heptagon (d) Hexagon





Q48. If "MONDAY" is coded as 1352467, what is the code for "DAY"?

- (a) 467 (b) 764  
(c) 246 (d) 357

Q49. A clock shows 3:00. The angle between the two hands is:

- (a)  $0^\circ$  (b)  $90^\circ$   
(c)  $180^\circ$  (d)  $45^\circ$

Q50. If  is rotated by  $180^\circ$ , it becomes?

- (a)  (b)   
(c)  (d) 

Q51. Find the odd figure.

- (a)  (b)   
(c)  (d) 

Q52. Square: 4, Octagon: \_\_\_\_

- (a) 3 (b) 5  
(c) 6 (d) 8

Q53. Ali walks 10m towards North, then 5m towards East, then 10m towards South. How far is he from the starting point?

- (a) 10m (b) 5m  
(c) 15m (d) 0m

Q54. Complete the series: A, C, F, J, O, ?

- (a) X (b) Y  
(c) Z (d) U

Q55. Find the missing number: 3, \_\_, 27, 81

- (a) 6 (b) 12  
(c) 9 (d) 36

### Section C: Social Science / General Knowledge

(Total Questions:-15 Maximum Marks:-30)

Q56. The thickest layer of the earth is:

- (a) Outer Core (b) Crust  
(c) Mantle (d) Inner Core

Q57. Which of the following is NOT a greenhouse gas?

- (a) Carbondioxide (b) Methane  
(c) Nitrious Oxide (d) Oxygen

Q58. The point on the surface directly above the earthquake focus is:

- (a) Epicenter (b) hypocentre  
(c) Focult Line (d) Seismic Wave

Q59. The windward side of mountains receives:

- (a) No Rainfall (b) Little Rainfall  
(c) Heavy Rainfall (d) No Sun Light

Q60. General Elections in India are held every:

- (a) 3 years (b) 4 years  
(c) 5 years (d) 6 years

Q61. The Election Commission of India is:

- (a) A supreme Court Committee (b) A Statuary Body  
(c) A Part Of PM's Office (d) A constitutional body

**Q62.** The first Battle of Panipat (1526) was fought between:

- (a) Babur and Ibrahim Lodhi (b) Akbar and Ibrahim Lodhi  
(c) Humayun and Akbar (d) Aurangzeb and Shivaji

**Q63.** The Revolt of 1857 first started at:

- (a) Meerut (b) Delhi  
(c) Kanpur (d) Lucknow

**Q64.** Who founded the Indian National Army (INA)?

- (a) Bhagat Singh (b) Rash Behari Bose  
(c) Gandhi ji (d) Lala Lajpat Roy

**Q65.** The Salt March started from Sabarmati and ended at:

- (a) Surat (b) Dandi  
(c) Bombay (d) Karachi

**Q66.** The Brahma Samaj was founded in 1828 by:

- (a) Raja Ram Mohan Roy (b) Swami Dayeanad Saraswati  
(c) Lala Lajpat Roy (d) Swami Vivekananda

**Q67.** Overgrazing, deforestation, and mining primarily lead to:

- (a) Soil Conservation (b) Soil erosion  
(c) Fertility (d) None of These

**Q68.** What are the consequences of over-exploitation of resources?

- (a) Pollution (b) Resources Depletion  
(c) Climate Change (d) All of these

**Q69.** The process by which rocks are broken into sediments is called:

- (a) Mining (b) Metamorphise  
(c) Weathering (d) Malting

**Q70.** Atmospheric pressure is measured in:

- (a) Meters (b) Millimeters of Mercury (mmHg)  
(c) Milimeters of Length (d) Milimeters of Height

## SECTION D: MATHEMATICS

(Total Questions:-45 Maximum Marks:-90)

Q71. If the third (unequal) angle of an isosceles triangle is  $40^\circ$  then each of the equal angles is:

- (a)  $70^\circ$  (b)  $60^\circ$   
(c)  $50^\circ$  (d)  $80^\circ$

Q72. If a transversal cuts two parallel lines and one angle is  $65^\circ$ , its corresponding angle is:

- (a)  $55^\circ$  (b)  $65^\circ$   
(c)  $115^\circ$  (d)  $125^\circ$

Q73. At what rate of simple interest will 2000 earn 300 in 3 years?

- (a) 4% (b) 3%  
(c) 5% (d) 6%

Q74. If "A" can finish a work in 12 days and "B" in 18 days, if they work together for 4 days and "A" leaves, how many more days will "B" take to complete the remaining work?

- (a) 6 days (b) 8 days  
(c) 10 days (d) 12 days

Q75. The circumference of a circle is 44cm, its area is:

- (a)  $154 \text{ cm}^2$  (b)  $38 \text{ cm}^2$   
(c)  $100 \text{ cm}^2$  (d)  $72 \text{ cm}^2$

Q76. Which of the following is a trinomial?

- (a)  $x+2x+3x$  (b)  $x+2x+3y$   
(c)  $x+y+z$  (d)  $3x+2+2x$

Q77. The reciprocal of  $\frac{2}{5}$  is:

- (a) 0.5  
 (b) 2.5  
 (c) 2.4  
 (d) 5

Q78. The perimeter of a rectangle is 40cm. If its length is 14cm, its breadth is:

- (a) 6cm  
 (b) 10cm  
 (c) 14cm  
 (d) 8cm

Q79. 0.75 as a fraction is:

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

Q80. The sum of angles in a linear pair is:

- (a)  $90^\circ$   
 (b)  $120^\circ$   
 (c)  $180^\circ$   
 (d)  $360^\circ$

Q81. If the temperature decreases from  $10^\circ\text{C}$  to  $-8^\circ\text{C}$ , the fall in temperature is:

- (a)  $18^\circ\text{C}$   
 (b)  $16^\circ\text{C}$   
 (c)  $20^\circ\text{C}$   
 (d)  $10^\circ\text{C}$

Q82. If a triangle has all three sides of unequal length, it is:

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

Q83. The angle greater than  $90^\circ$  and less than  $180^\circ$  is called:

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

Q84. The mean of the first five natural numbers is:

- (a) 1  
 (b) 2  
 (c) 3  
 (d) 4

**Q85.** Which of the following is a prime number?

- (a) 51 (b) 57  
(c) 59 (d) 63

**Q86.** The length and breadth of a rectangle are 8cm and 6cm. Its area is:

- (a)  $48 \text{ cm}^2$  (b)  $64 \text{ cm}^2$   
(c)  $72 \text{ cm}^2$  (d)  $90 \text{ cm}^2$

**Q87.** The complement of  $42^\circ$  is:

- (a)  $42^\circ$  (b)  $40^\circ$   
(c)  $48^\circ$  (d)  $38^\circ$

**Q88.** The supplement of angle  $127^\circ$  is:

- (a)  $53^\circ$  (b)  $43^\circ$   
(c)  $63^\circ$  (d)  $23^\circ$

**Q89.** Which of the following is an irrational number?

- (a)  $\sqrt{3}$  (b) 0.25  
(c)  $\frac{3}{7}$  (d)  $\sqrt{4}$

**Q90.** The sum of interior angles of a quadrilateral is:

- (a)  $180^\circ$  (b)  $360^\circ$   
(c)  $90^\circ$  (d)  $540^\circ$

**Q91.** Which of the following is a Rational Number?

- (a)  $\sqrt{2}$  (b)  $\sqrt{3}$   
(c)  $\sqrt{4}$  (d)  $\sqrt{5}$

**Q92.** The LCM of two numbers is 120 and their HCF is 6. If one number is 30, the other number is:

- (a) 24 (b) 36  
(c) 20 (d) 40

Q93. If  $2x + 5 = 11$ , then  $x =$ :

- (a) 2 (b) 3  
(c) 4 (d) 1

Q94. The sum of exterior angles of any polygon is:

- (a)  $360^\circ$  (b)  $540^\circ$   
(c)  $270^\circ$  (d)  $180^\circ$

Q95. The number that occurs most frequently in a data set is called:

- (a) Mean (b) Median  
(c) Mode (d) Range

Q96. The middle value of arranged data is called:

- (a) Mean (b) Median  
(c) Mode (d) Range

Q97. The difference between the square root of 169 and the square root of 121 is:

- (a)  $\sqrt{2}$  (b)  $\sqrt{3}$   
(c)  $\sqrt{4}$  (d)  $\sqrt{5}$

Q98. The cube root of 64 is:

- (a) 8 (b) 4  
(c) 16 (d) 2

Q99. 20% of 300 is:

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

Q100. The number of terms in the expression  $2x + 3y - 5$  is:

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

**Q101.** If the Perimeter of a square is 48 cm, its area is:

- (a)  $100 \text{ cm}^2$  (b)  $144 \text{ cm}^2$   
(c)  $64 \text{ cm}^2$  (d)  $156 \text{ cm}^2$

**Q102.** A cube has 6 faces. Each face is a:

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

**Q103.** The angles of a triangle are in the ratio 1:2:3, the smallest angle is:

- (a)  $30^\circ$  (b)  $60^\circ$   
(c)  $90^\circ$  (d)  $45^\circ$

**Q104.**  $(5)^\circ$  is equal to:

- (a) 0 (b) 1  
(c) 2 (d) 5

**Q105.** A number is divisible by 9 if:

- (a) It ends with 9 (b) It ends with 1  
(c) Sum of digits is divisible by 9 (d) It ends with 7

**Q106.** How many vertices does a cuboid have?

- (a) 8 (b) 6  
(c) 4 (d) 10

**Q107.** A ladder 13m long reaches a wall at a height of 12m. Find the distance of the foot of the ladder from the wall.

- (a) 3m (b) 4m  
(c) 5m (d) 6m

**Q108.** A solid has 6 faces and 12 edges. Calculate the number of vertices.

- (a) 6 (b) 8  
(c) 10 (d) 12

**Q109.** A die is thrown once. What is the probability of getting a number greater than 5?

- (a)  $1/6$  (b)  $2/6$   
 (c)  $3/6$  (d)  $5/6$

**Q110.** If a sector in a pie chart represents 25% of the data, its central angle is:

- (a)  $45^\circ$  (b)  $60^\circ$   
 (c)  $90^\circ$  (d)  $75^\circ$

**Q111.** If six workers can complete a job in 8 days, how many days will 12 workers take to complete the same job?

- (a) 03 days (b) 04 days  
 (c) 06 days (d) 08 days

**Q112.** Factorize  $x^2 + 7x + 10$ :

- (a)  $(x+2)(x+5)$  (b)  $(x+3)(x+4)$   
 (c)  $(x+1)(x+10)$  (d)  $(x+3)(x+5)$

**Q113.** The point  $(-5, 2)$  lies in:

- (a) First Quadrant (b) Second Quadrant  
 (c) Third Quadrant (d) Fourth Quadrant

**Q114.** A car travels 120km in 3 hours. How far will it travel in 7 hours?

- (a) 240km (b) 280km  
 (c) 200km (d) 300km

**Q115.** Which of the following numbers is divisible by 7?

- (a) 97 (b) 101  
 (c) 149 (d) 1001

## Section E: Science

(Total Questions:-20 Maximum Marks:-40)

Q116. The nearest STAR to Earth is:

- (a) Alpha Centauri (b) Sirius  
(c) Sun (d) Polaris

Q117. Which gas is mainly responsible for global warming?

- (a) Carbon dioxide (b) Nitrogen  
(c) Oxygen (d) Hydrogen

Q118. Which layer protects the earth from harmful UV rays?

- (a) Troposphere (b) Stratosphere  
(c) Mesosphere (d) Ozone Layer

Q119. Cholera is caused by:

- (a) Virus (b) Bacteria  
(c) Yeast (d) Algae

Q120. Lightning is caused due to the accumulation of:

- (a) Sound Waves (b) Magnetic Charge  
(c) Electric charges (d) Heat

Q121. The force that opposes the motion of one surface over another is:

- (a) Friction (b) Magnetism  
(c) Gravity (d) Pressure

Q122. A species likely to become endangered in the future is called:

- (a) Extinct (b) Endemic  
(c) Vulnerable species (d) Fossil

Q123. Reproductive cell in females is called:

- |            |            |
|------------|------------|
| (a) Zygote | (b) Ovum   |
| (c) Sperm  | (d) Embryo |

Q124. The first menstrual flow in girls is called:

- |               |                   |
|---------------|-------------------|
| (a) Menarche  | (b) Menopause     |
| (c) Ovulation | (d) Fertilization |

Q125. The process of removing unwanted plants from a field is:

- |               |                |
|---------------|----------------|
| (a) Thrashing | (b) Harvesting |
| (c) Weeding   | (d) Sowing     |

Q126. When coal is heated in absence of air, it gives:

- |               |          |
|---------------|----------|
| (a) Coal Tar  | (b) Peat |
| (c) Petroleum | (d) Coke |

Q127. The lowest temperature at which a substance catches fire is called:

- |                           |                     |
|---------------------------|---------------------|
| (a) Melting point.        | (b) Boiling Point.  |
| (c) Ignition temperature. | (d) Freezing Point. |

Q128. Which of the following stores water and waste materials in plants?

- |              |              |
|--------------|--------------|
| (a) Vacuole  | (b) Nucleus  |
| (c) Lysosome | (d) Ribosome |

Q129. Which of the following is NOT a vegetative propagation method?

- |                 |              |
|-----------------|--------------|
| (a) Pollination | (b) Cutting  |
| (c) Layering    | (d) Grafting |

Q130. The SI unit of force is:

- |           |            |
|-----------|------------|
| (a) Joule | (b) Newton |
| (c) Watt  | (d) Pascal |

**Q131.** Sound does not travel through:

- |           |              |
|-----------|--------------|
| (a) Steel | (b) Platinum |
| (c) Iron  | (d) Vacuum   |

**Q132.** The mirror used in vehicles as a "Rear-view" mirror is:

- |                    |                   |
|--------------------|-------------------|
| (a) Plane Mirror   | (b) Convex Mirror |
| (c) Concave Mirror | (d) None          |

**Q133.** Which of the following is NOT a metal?

- |                |             |
|----------------|-------------|
| (a) Phosphorus | (b) Sodium  |
| (c) Potassium  | (d) Calcium |

**Q134.** Which of the following is a synthetic fibre?

- |           |            |
|-----------|------------|
| (a) Silk  | (b) Wool   |
| (c) Nylon | (d) Cotton |

**Q135.** When an electric current passes through a conducting solution, causing a change, the process is called \_\_\_\_\_

- |                     |                  |
|---------------------|------------------|
| (a) Neutralisation  | (b) Electrolysis |
| (c) Electrification | (d) Oxidation    |