

J&K SAINIK SCHOOL MANASBAL

TEST BOOKLET - VI

ROLL NUMBER

800121

Test Booklet No. & Series

800121

A

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 (24 Pages) comprising of 135 Questions with Section A - 45 (Mathematics), B - 35 (Reasoning), C - 20 (English), D - 20 (Science) & E - 15 (Social Science/GK). 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: MATHEMATICS**(Total Question - 45 Max Marks - 90)****Q No. 1.** The number of two digit natural numbers is;

- a) 89
- b) 90
- c) 91
- d) 99

Q No. 2. If p and q are integers and represented in the form of $p/q (q \neq 0)$, then it is a:

- a) whole number
- b) rational number
- c) natural number
- d) even number

Q No. 3. Three numbers are in the ratio of 3 : 4 : 5 and their L.C.M. is 2400. Their H.C.F. is:

- a) 40
- b) 80
- c) 120
- d) 200

Q No. 4. The least number, which when divided by 12, 15, 20 and 54 leaves in each case a remainder of 8 is:

- a) 504
- b) 536
- c) 544
- d) 548

Q No. 5. A train starts at 2:15 PM from a station at a speed of 72Km/hr. At what time will it reach the other station 90Km away?

- a) 3:00 PM
- b) 3:30 PM
- c) 4:00 PM
- d) 4:30 PM

Q No. 6. The decimal equivalent of $12\frac{1}{16}$ is

- a) 12.625
- b) 12.6025
- c) 12.0635
- d) 12.0625

Q No. 7. In how many years does the sum of Rs 1200 become Rs 1800 at the rate of simple interest of 5% per annum?

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

Q No. 8. The sum of smallest prime number and smallest composite number is:

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

Q No. 9. The length and breadth of a rectangle are in the ratio 3 : 1. If the breadth is 7 cm, then the length of the rectangle is:

- a) 14 cm
- b) 16 cm
- c) 18 cm
- d) 21 cm

- Q No. 19.** A sum of money increases 3 times in 5 years at simple interest. In how many years will the same sum become 6 times at the same rate of simple interest?
- a) 10 years
b) 12 years
c) 12.5 years
d) 10.5 years
- Q No. 20.** What is difference between greatest 5-digit number and lowest 4-digit number?
- a) 1
b) 89999
c) 98999
d) 99998
- Q No. 21.** The total number of diameters of a circle are-----
- a) 10
b) 200
c) 2
d) Infinity
- Q No. 22.** How many circles can be drawn to pass through three non co linear points?
- a) 2
b) 1
c) 0
d) None
- Q No. 23.** $15-15+15\times 6 = x$, then value of x is;
- a) 6
b) 0
c) 9
d) 84
- Q No. 24.** The sum of HCF and LCM of 45, 60 and 75 is;
- a) 330
b) 960
c) 915
d) 630
- Q No. 25.** A square and a rectangle have the same perimeter. If the side of the square is 16m and the length of the rectangle is 18m, then the breadth of the rectangle is-----
- a) 14m
b) 15m
c) 16m
d) 17m
- Q No. 26.** Smallest twin prime numbers are _____
- a) 17, 19
b) 11, 13
c) 41, 43
d) 3, 5

- Q No. 36.** Angles that are less than 90° and greater than 0° are called
- a) right angles
b) obtuse angles
c) Reflective angles
d) acute angles
- Q No. 37.** Length = 3dm, Breadth = 3dm. Perimeter of sq = ?
- a) 11dm
b) 12m
c) 12cm
d) 12dm
- Q No. 38.** Area of sq = $(83 \times ?) \text{cm}^2 = 6889 \text{cm}^2$
- a) 84cm
b) 83cm
c) 82cm
d) 85cm
- Q No. 39.** XXXIX = ? (Hindu Arabic numeral)
- a) 72
b) 39
c) 89
d) 69
- Q No. 40.** What is roman number of '3000'?
- a) M
b) MMM
c) MM
d) MMMM
- Q No. 41.** 3 boxes have some average weight. When one box which weighs 89 kg is replaced by another box, the average weight increases by 5 kg. How much the new box weighs?
- a) 109 kg
b) 94 kg
c) 104 kg
d) 84 kg
- Q No. 42.** The average weight of 8 persons is increased by 2.5 kg when one of them who weighs 56 kg is replaced by a new man. The weight of the new man is:
- a) 76 Kg
b) 72 Kg
c) 78 Kg
d) None of these
- Q No. 43.** A certain amount earns simple interest of Rs. 1750 after 7 years. Had the interest been 2% more, how much more interest would it have earned?
- a) Rs. 35
b) Rs. 245
c) Rs. 350
d) cannot be determined

Q No. 44. A sum of money amounts to Rs. 9800 after 5 years and Rs. 12005 after 8 years at the same rate of simple interest. The rate of interest per annum is:

- a) 5% b) 8%
c) 12% d) 15%

Q No. 45. A fraction equivalent to $\frac{45}{105}$ is

- a) $\frac{6}{14}$ b) $\frac{3}{7}$
c) $\frac{5}{7}$ d) $\frac{7}{5}$

SECTION B: INTELLIGENCE/ REASONING

(Total Question - 35 Max Marks - 70)

Q No. 46. If NOIDA is written as OPJEB, then what will be the code for DELHI?

- a) EFMAK b) EFAMK
c) EFMIJ d) EFMIK

Q No. 47. Which number is wrong in the series 2, 6, 15, 31, 56, 93?

- a) 6 b) 31
c) 56 d) 93

Q No. 48. If PINK is coded as 1691411, then RED will be coded as -

- a) 1963 b) 1854
c) 1853 d) 1954

Q No. 49. Which of the following is the odd one from the given alternatives?

- a) Driving b) Diving
c) Swimming d) Sailing

Q No. 50. Which of the following set of letters completes the letter series, when sequentially placed at the gaps? _ ab _ b _ aba _ _ abab

- a) abbab b) abbaa
c) abaab d) aaaba

Q No. 51. A is the mother of B; B is the sister of C; C is the father of D. So, how A is related to D?

- a) Grandmother b) Mother
c) Aunt d) Insufficient data

Directions to Solve Q 52 – Q 54: In each of the following questions find out the alternative which will replace the question mark.

Q No. 52. Flow: River: Stagnant: ?

- a) Rain
- b) Stream
- c) Pool
- d) Canal

Q No. 53. Ornithologist: Bird: Archaeologist: ?

- a) Islands
- b) Mediators
- c) Archaeology
- d) Aquatic

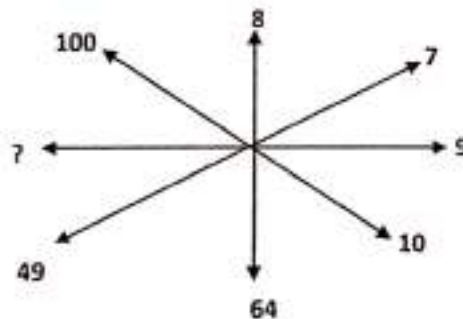
Q No. 54. Architect: Building: Sculptor: ?

- a) Museum
- b) Stone
- c) Chisel
- d) Statue

Q No. 55. A snail is at the bottom of a 30 feet well, each day he climbs up 3 feet, but at night he slips back 2 feet. How many days will it take to him to climb out of the well?

- a) 28
- b) 29
- c) 30
- d) 31

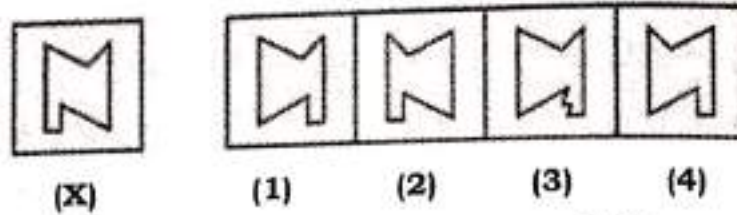
Q No. 56. Find the missing number?



- a) 45
- b) 63
- c) 72
- d) 81

Directions to Solve Q 57 - Q 58: In each of the following questions, choose the correct mirror images of the given image of the Fig.(X) from amongst the four alternatives (1), (2), (3) and (4) given along with it.

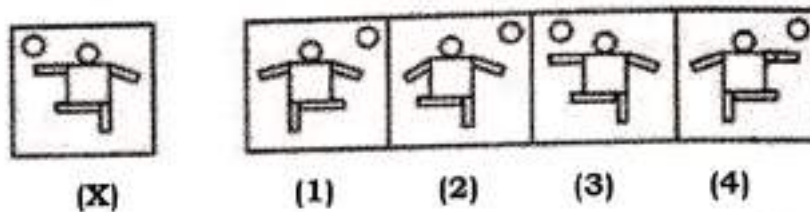
Q No. 57.



- a) 1
- c) 3

- b) 2
- d) 4

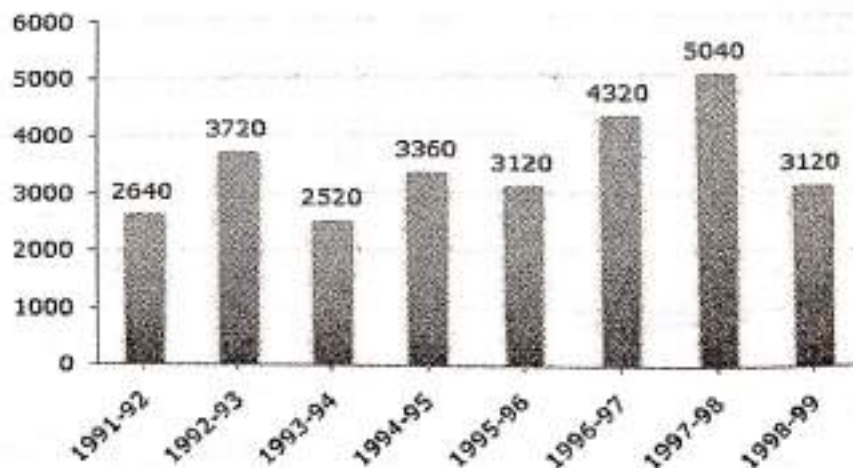
Q No. 58.



- a) 1
- c) 3

- b) 2
- d) 4

Directions to Solve Q 59 - Q 60: The bar graph given below shows the foreign exchange reserves of a country (in million US \$) from 1991 - 1992 to 1998 - 1999.



Q No. 59. For which year, the percent increase of foreign exchange reserves over the previous year, is the highest?

- a) 1992-93
- c) 1994-95

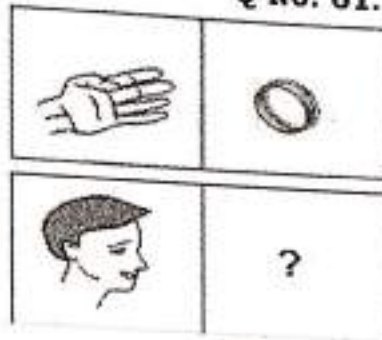
- b) 1993-94
- d) 1996-97

Q No. 60. What was the percentage increase in the foreign exchange reserves in 1997-98 over 1993-94?

- a) 100
- b) 150
- c) 200
- d) 620

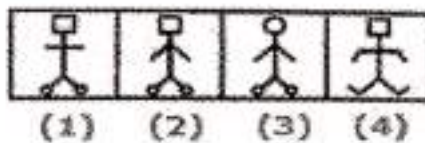
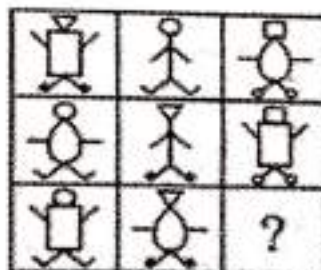
Directions to Solve Q 61 - Q 62: Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.

Q No. 61.



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

Q No. 62. Select a suitable figure from the four alternatives that would complete the figure matrix.



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

Q No. 63. On 8th Dec, 2007 Saturday falls. What day of the week was it on 8th Dec, 2006?

- a) Sunday
- b) Thursday
- c) Tuesday
- d) Friday

Q No. 71. 12 : 24; 30 : ?

- a) 40
- b) 60
- c) 80
- d) 100

Q No. 72. In a 100 m race, A can beat B by 25 m and B can beat C by 4 m. In the same race, A can beat C by:

- a) 21 m
- b) 26 m
- c) 28 m
- d) 29 m

Q No. 73. Heart is related to Blood, in the same way Lung is related to:

- a) Chest
- b) Purification
- c) Oxygen
- d) Water

Q No. 74. A Fish is to Gills, then Human is to ----- ?

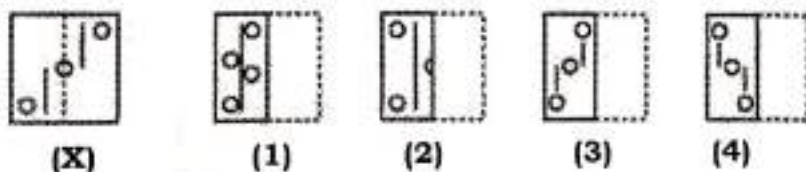
- a) Kidney
- b) Lungs
- c) Stomach
- d) Bones

Q No. 75. Mujtaba does some work in 10 days and Tanveer does the same work in 15 days. In how many days they together will do the same work?

- a) 5 days
- b) 6 days
- c) 10 days
- d) 15 days

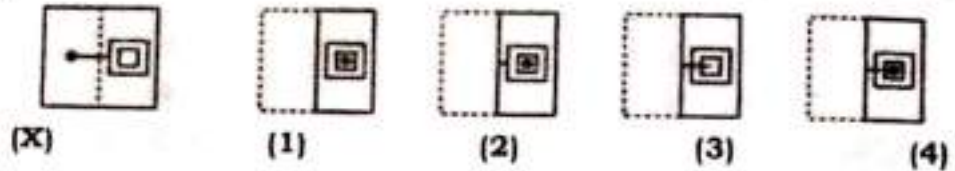
Directions to Solve Q 76 - Q 77: In each of the following problems, a square transparent sheet (X) with a pattern is given. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

Q No. 76.



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

Q No. 77.



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

Q No. 78. Three different positions X, Y and Z of a dice are shown in the figures given below. Which of the hidden numbers adjacent to 5 in position X is/are common to the hidden numbers adjacent to 5 in position Z?

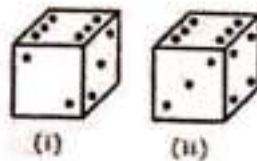


- a) 1 and 4
- b) 2
- c) 6
- d) None

Q No. 79. Four usual dice are thrown on the ground. The total of numbers on the top faces of these four dice is 13 as the top faces showed 4, 3, 1 and 5 respectively. What is the total of the faces touching the ground?

- a) 12
- b) 13
- c) 15
- d) Cannot be determined

Q No. 80. Two positions of a dice with 1 to 6 dots on its sides are shown below. If the dice is resting on the side with three dots, what will be number of dots on the side at the top?



- a) 1 or 5
- b) 2
- c) 3
- d) 5

SECTION C: ENGLISH
 (Total Question - 20 Max Marks - 40)

PASSAGE

Directions (Q No. 81 to Q No. 85): Read the passage carefully and choose correct option from the given alternatives:

There is an interesting story about a rabbit and his grandpa. It happened, on a full-moon night, our friend, the rabbit had gone out for a stroll when he met a cunning Jackal. Luckily for Mr. Rabbit, Mr. Jackal had a very hearty meal that night. So, instead of making Mr. Rabbit his dinner, Mr. Jackal decided to have only some fun at the expense of Mr. Rabbit. He said to Mr. Rabbit, "Look up there. Your grandpa is waiting for you on the moon. Don't you want to go up there and see him?" Mr. Rabbit was taken in. He did not understand that cunning Mr. Jackal was only trying to befool him. He paid no heed to the advice of his dear mother and went from friend to friend, seeking help in reaching the moon.

Q No. 81. What did Mr. Jackal say to Mr. Rabbit?

- a) that his grandfather was waiting for him on the moon
- b) that his grandfather is waiting for him at home
- c) that his father is calling him
- d) None of these

Q No. 82. When did Mr. Rabbit meet Mr. Jackal?

- a) in the evening
- b) in the morning
- c) on a full moon night
- d) in the afternoon

Q No. 83. Find the word which means the same as 'deceived'.

- a) clever
- b) heed
- c) cunning
- d) taken in

Q No. 84. The Jackal was very

- a) foolish
- b) cunning
- c) coward
- d) helpful

Q No. 85. Why did Mr. Jackal not eat up Mr. Rabbit?

- a) he did not like rabbit
- b) he did not want to kill Mr. Rabbit
- c) because his stomach was full
- d) Mr. Rabbit escaped



Directions for Q No. 86 to Q No. 87: Fill in the blanks with suitable preposition from the options given below:

Q No. 86. Since Ali met his new friends, he never seems to be _____ home.

- | | |
|-------|-------|
| a) in | b) at |
| c) is | d) on |

Q No. 87. She spent the entire evening _____ phone.

- | | |
|-------|-------|
| a) at | b) in |
| c) on | d) is |

Directions for Q No. 88 to Q No. 90: Use appropriate article from the alternatives given below:

Q No. 88. Hindi is easy language.

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

Q No. 89. French defeated Germans.

- | | |
|-------------|------------|
| a) A, a | b) An, the |
| c) The, the | d) An, an |

Q No. 90. Taj mahal is a very beautiful building.

- | | |
|--------|------------------|
| a) The | b) an |
| c) a | d) none of these |

Directions for Q No. 91 to Q No. 92: Use the correct form of the verb from the given options:

Q No. 91. Will you ___ her?

- | | |
|----------------|-------------|
| a) had married | b) marrying |
| c) married | d) marry |

Q No. 92. I turned to my sister and ___ her about it.

- | | |
|-----------|----------------------|
| a) asking | b) asked |
| c) asks | d) none of the above |

Directions for Q No. 93 to Q No. 94: Fill in the blanks with suitable degree of adjectives from the alternatives given below:

Q No. 93. Which is the living animal? (old)

- | | |
|-----------|------------------|
| a) older | b) old |
| c) oldest | d) none of these |

Q No. 94. Gold is a metal. (costly)

- a) more costly
- c) costly

- b) costlier
- d) costliest

Q No. 95. Select the antonym of the word: Exposition.

- a) Explanation
- c) Silence

- b) Critique
- d) Pronouncement

Q No. 96. What is the antonym of 'DIVINE'?

- a) heavenly
- c) delightful

- b) spiritual
- d) hellish

Q No. 97. Which of the following is a synonym for luxuriant?

- a) Beautiful
- c) Abundant

- b) Luxurious
- d) Lovely

Directions for Q No. 98 to Q No.100: In each question below, there is a sentence of which some parts have been jumbled up. Rearrange these parts which are labelled P, Q, R and S to produce the correct sentence. Choose the proper sequence.

Q No. 98. When he

- P: did not know
- Q: he was nervous and
- R: heard the hue and cry at midnight
- S: what to do

The Proper sequence should be:

- a) RQPS
- c) SQPR

- b) QSPR
- d) PQRS

Q No. 99. It has been established that

- P: Einstein was
- Q: although a great scientist
- R: weak in arithmetic
- S: right from his school days

The Proper sequence should be:

- a) SRPQ
- c) QPSR

- b) QPRS
- d) RQPS

Q No. 100. I read an advertisement that said

P: posh, air-conditioned

Q: gentleman of taste

R: are available for

S: fully furnished rooms

The Proper sequence should be:

a) PQRS

c) PSQR

b) PSRQ

d) SRPQ

SECTION D: GENERAL SCIENCE

(Total Question - 20 Max Marks - 40)

Q No. 101. _____ helps in throwing out some wastes from body as urine and sweat?

a) Proteins

c) Water

b) Carbohydrates

d) Vitamins

Q No. 102. The source of Phosphorous is:

a) Banana

c) Apple

b) Egg

d) Ginger

Q No. 103. Sand from water is separated by _____

a) sieving

c) filtration

b) evaporation

d) sedimentation and decantation

Q No. 104. Threshing is done by

a) beating

c) machines

b) bullocks

d) all of these

Q No. 105. The prominent line in the middle of a leaf is called _____.

a) Vein

c) Midrib

b) Petiole

d) Lamina

Q No. 106. The net-like design on both sides of midrib is called _____.

a) Leaf venation

c) Reticulate venation

b) Parallel venation

d) Lamina

Q No. 107. The prominent parts of the open flower are called _____.

a) sepals

c) pistil

b) petals

d) stamens

Q No. 108. The knee has a _____ joint?

a) Socket joint

c) fixed joint

b) hinge joint

d) pivotal joint

- Q No. 109.** The body of an earthworm is made up of many ____ joined end to end.
 a) rings
 b) bones
 c) skeleton
 d) muscle
- Q No. 110.** Earthworm has ____ which are connected with muscles and help to get a good grip on the ground.
 a) rings
 b) bones
 c) bristles
 d) joints
- Q No. 111.** The process of getting rid of wastes by organisms is known as ____.
 a) respiration
 b) photosynthesis
 c) stimuli
 d) excretion
- Q No. 112.** Motion of an electric fan is ____
 a) Circular motion
 b) rectilinear motion
 c) periodic motion
 d) none of the above
- Q No. 113.** ____ is a device that is used to either break the electric circuit or to complete it?
 a) A plug
 b) A regulator
 c) A switch
 d) All of the above
- Q No. 114.** Each magnet has ____ magnetic poles.
 a) three
 b) four
 c) two
 d) one
- Q No. 115.** Mountaineers carry oxygen cylinders with them because-----
 a) there is no oxygen on high mountains
 b) there is deficiency of oxygen on mountains at high altitude
 c) oxygen is used for cooking
 d) oxygen keeps them warm at low temperature.
- Q No. 116.** Clouds are _____
 a) tiny drops of water floating in the air
 b) mixture of dust and water vapour
 c) particles of water vapour
 d) rain drops in the air.
- Q No. 117.** Which of the following does not express a time interval?
 a) A day
 b) A second
 c) A school periods
 d) Time of the first bell in the school

- Q No. 118.** Which of the following is an aquatic habitat?
 a) Lakes
 b) Forest
 c) Oceans
 d) Both (a) and (c)
- Q No. 119.** If you happen to go to a desert, what changes do you expect to observe in the urine you excrete? You would _____
 (i) excrete small amount of urine
 (ii) excrete large amount of urine
 (iii) excrete concentrated urine
 (iv) excrete very dilute urine
 Which of the above would hold true?
 a) (i) and (iii)
 b) (ii) and (iv)
 c) (i) and (iv)
 d) (i) and (ii)
- Q No. 120.** Which of the following is not an example of response to stimulus?
 a) Watering in mouth when we see delicious food items
 b) Closing of leaves of mimosa plant when touched
 c) Shutting our eyes when an object is suddenly thrown in our direction
 d) A chick hatching out of an egg

SECTION E: SOCIAL SCIENCE / GENERAL KNOWLEDGE

(Total Question - 15 Max Marks - 30)

- Q No. 121.** Which device is used to detect and measure the purification of the milk?
 a) Microphone
 b) Barometer
 c) Hydrometer
 d) Lactometer
- Q No. 122.** The National river of India is-----
 a) Ganga
 b) Indus
 c) Brahmaputra
 d) Kosi
- Q No. 123.** Which among the following does not belong to the commissioned ranks in the army service?
 a) Brigadier
 b) Colonel
 c) Major
 d) Commander

Q No. 124. Which cricketer has the record of highest individual score in ODIs?

- a) Rohit Sharma
 b) Chris Gayle
 c) Virender Sehwag
 d) Sachin Tendulkar

Q No. 125. The head quarter of the United Nations Organization (UNO) is located at-----

- a) New York
 b) London
 c) New Delhi
 d) Vienna

Q No. 126. Who has recently been crowned as Miss India 2023.

- a) Nandini Gupta
 b) Shreya Pooja
 c) Sunita Gupta
 d) Kareena Gupta

Q No. 127. A young one of a cow is called;

- a) Pup
 b) Chick
 c) Cygnet
 d) Calf

Q No. 128. Which among the following causes environmental pollution?

- a) Tidal energy
 b) Solar energy
 c) Wind energy
 d) Coal

Q No. 129. The Rigveda includes more than a thousand hymns, called _____.

- a) Sukta
 b) Vishis
 c) Soma
 d) Recited

Q No. 130. Teachers Day is celebrated on;

- a) 5th August
 b) 5th July
 c) 5th September
 d) 5th October

Q No. 131. Which imaginary line-running on the globe-divides the earth into two equal parts?

- (a) Axis
 (b) Latitude
 (c) Equator
 (d) None of these

Q No. 132. The deepest Mariana trench is in the _____ Ocean.

- a) Atlantic
- b) Indian
- c) Southern
- d) Pacific

Q No. 133. The Indus valley civilization was initially called-----

- a) Harappa Civilization
- b) Mohenjo-Daro Civilization
- c) Punjab-Sind Civilization
- d) Lothal Civilization

Q No. 134. The driest place on the earth is-----

- a) Atacama desert
- b) Thar desert
- c) Sahara desert
- d) Gobi desert

Q No. 135. The Indian government is elected for how many years?

- a) 5 Years
- b) 7 Years
- c) 10 Years
- d) 6 Years

