

LAKSHYA ACADEMY

**SAINIK SCHOOL | MILITARY SCHOOL | RIMC [ONLINE & OFFLINE]
JAIPUR(RAJ.) [9636961534] | PATNA(BIHAR) [8426961534]**

MODEL PAPER – 002 FOR AISSEE

DURATION : 02:30 HRS

MAX. MARKS : 300

Name of the Candidate (in capitals) : _____

General Instructions:

1. Answer all questions in the OMR answer sheet only.
2. This question paper booklet contains FOUR sections. Section "B" MATHEMATICS contains 50 questions of 3 marks each. Section "A" ENGLISH, Section "C" GENERAL KNOWLEDGE, Section "D" INTELLIGENCE contain 25 questions each, of 2 marks per question. In all, the paper consists of 125 questions for a total of 300 marks.
3. There is no negative marking for a wrong answer.

SECTION – ‘A’ : ENGLISH

Directions (Q. Nos. 1-5) Read the passage carefully and answer the following questions.

We now know many curious things about ants. Some red ants in Europe keep other ants as slaves. They take their slaves from black ants which are smaller in size. When they want slaves they attack the nests of black ants and carry off some of their eggs. Their eggs are hatched in the red ants nests and produce black ants. These black ants are then treated as slaves, They are taught to obey orders and made to do all kinds of work. The driver ants of Africa are the most fierce ants. They are completely blind and they march like a big army from one place to another. On the way they eat up any living animals including big animals like tigers, and elephants. When these driver ants enter a house the people leave the house and run away into the forests.

1. Red ants are found in

- (A) Europe
(C) Asia

- (B) Africa
(D) America

2. Black ants are treated as

- (A) masters
(C) helpers
- (B) guards
(D) slaves

3. How do driver ants of Africa move?

- (A) Independently
(C) Separately
- (B) Like a big army
(D) Jointly

4. Write the opposite of ‘slave’.

- (A) king
(C) master
- (B) kind
(D) brave

5. How _____ you _____ (get) on with your studies?

- (A) is, get
(C) is, getting
- (B) do, get
(D) have, got

6. She _____ (leave) for Jammu yesterday.

- (A) leaves
(C) has been leaving
- (B) is leaving
(D) left

7. I _____ (write) to her last week.

- (A) wrote
(C) had been writing
- (B) have been writing
(D) written

8. I can't believe that you are coming here! ____!

- (A) Hmm!
(C) Yay!
- (B) Woah!
(D) Ah!

“LIFE IS TOO SHORT TO WAIT”

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9. _____ just look at the puppies.

- (A) Oh! (B) Aww!
(C) Hey! (D) Ah!

10. _____ can you repeat the question?

- (A) Hey! (B) Hmm!
(C) Huh! (D) Uh!

11. You _____ have to Obey me.

- (A) must (B) would
(C) might (D) will

12. _____ I come in, Sir?

- (A) Can (B) Shall
(C) May (D) Could

13. You _____ not bring the child here.

- (A) have (B) had
(C) need (D) would

14. I go to Madurai by _____ Vaigai Express

- (A) a (B) an
(C) some (D) The

15. Please give me _____ useful gift

- (A) an (B) a
(C) no article (D) the

16. Our city will have _____ university soon

- (A) a (B) an
(C) the (D) no article

17. _____ unit means a measurement

- (A) a (B) an
(C) the (D) no article

18. His house is adjacent _____ mine.

- (A) with (B) to
(C) from (D) of

19. Why are you angry _____ me?

- (A) at (B) to
(C) on (D) with

20. A father is blind _____ the faults of his son.

- (A) of (B) to
(C) with (D) for

21. He is a fan of cricket. The underlined word is:

- (A) Adverb (B) Pronoun
(C) Preposition (D) Verb Show

22. A word that is used to join words is called

- (A) Conjunction (B) Preposition
(C) Adverb (D) Interjection

23. Which of the following pronouns are used when are talking about someone who is not present?

- (A) First Person Pronouns
(B) Second Person Pronouns
(C) Third Person Pronouns
(D) None of these

24. The student wrote an application to his teacher. The underlined word is:

- (A) Adverb (B) Adjective
(C) Noun (D) Pronoun

25. She was distressed to hear about my failure.

The word "distressed" is:

- (A) Adverb (B) Adjective
(C) Verb (D) Noun

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SECTION – ‘B’: MATHEMATICS

26. Neelam's annual income is Rs 288000. Her annual savings amount to Rs 36000. The ratio of her savings to her expenditure is

- (A) 1 : 8 (B) 1 : 7
(C) 1 : 6 (D) 1 : 5

27. 20 tons of iron costs Rs 600000. Find the cost of 560kg of iron.

- (A) Rs 1680 (B) Rs 16800
(C) Rs 840 (D) Rs 8400

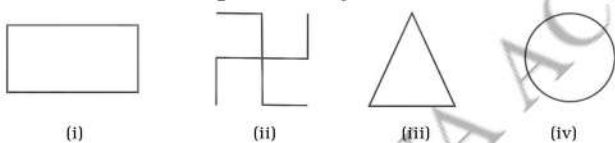
28. Income of Rahim is Rs 12000 per month and that of Ami is Rs 191520 per annum. If the monthly expenditure of each of them is Rs 9960 per month find the ratio of their savings.

- (A) 17 : 25 (B) 17 : 50
(C) 7 : 25 (D) 7 : 50

29. Number of set squares in the geometry box is

- (A) 0 (B) 1
(C) 2 (D) 3

30. In the following figures, the figure that is not symmetric with respect to any line is



- (A) (i) (B) (ii)
(C) (iii) (D) (iv)

31. $4a$ equals

- (A) $4 + a$ (B) $4 \times a$
(C) $a \times a \times a \times a$ (D) $4 \div a$

32. "Variable" means that it

- (A) can take different values
(B) has a fixed value
(C) can take only 2 values
(D) can take only three values

33. What should be added to 37.28 to obtain 46.8?

- (A) 9.68 (B) 9.20
(C) 9.52 (D) 84.08

34. 0.023 lies between

- (A) 0.2 and 0.3 (B) 0.02 and 0.03
(C) 0.03 and 0.029 (D) 0.026 and 0.024

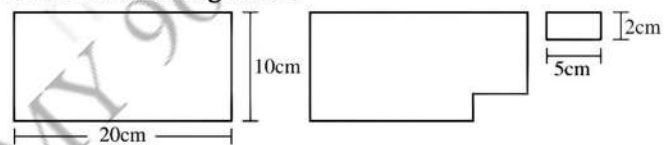
35. 3 Hundredths + 3 tenths = _____.

- (A) 330 (B) 303
(C) 0.033 (D) 0.33

36. Which temperature is hotter: 17°C or 58°F ?

- (A) 17°C (B) 58°F
(C) Both are equal (D) None of these

37. Length and breadth of a rectangular sheet of paper are 20cm and 10cm, respectively. A rectangular piece is cut from the sheet as shown in Figure. Which of the following statements is correct for the remaining sheet?



- (A) Perimeter remains same but area changes.
(B) Area remains the same but perimeter changes.
(C) Both area and perimeter are changing.
(D) Both area and perimeter remain the same.

38. How many possible dimensions (in natural numbers) of a rectangle with a perimeter 36cm.

- (A) 6 (B) 8
(C) 9 (D) 10

39. A magazine charges Rs 300 per 10 sq cm area for advertising. A company decided to order a half page advertisement. If each page of the magazine is 15 cm \times 24 cm, what amount will the company has to pay for it?

- (A) Rs 5400 (B) Rs 54000
(C) Rs 10800 (D) Rs 2700

40. A wire is cut into several small pieces. Each of the small pieces is bent into a square of side 2cm. If the total area of the small squares is 28 square cm, what was the original length of the wire?

- (A) 28 cm (B) 56 cm
(C) 32 cm (D) 64 cm

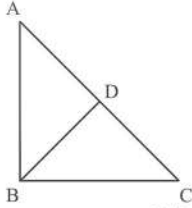
41. If the sum of two angles is equal to an obtuse angle, then which of the following is not possible?

- (A) One obtuse angle and one acute angle.
(B) One right angle and one acute angle.
(C) Two acute angles.
(D) Two right angles.

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42. In Figure, $AB = BC$ and $AD = BD = DC$. The number of isosceles triangles in the figure is



- (A) 1 (B) 2
(C) 3 (D) 4

43. The product of successor and predecessor of 999 is

- (A) 999000 (B) 998000
(C) 989000 (D) 1998

44. The number of primes between 16 to 80 and 90 to 100 is

- (A) 20 (B) 18
(C) 17 (D) 16

45. The number of distinct prime factors of the largest 4-digit number is

- (A) 2 (B) 3
(C) 5 (D) 11

46. Which of the following statements is not true?

- (A) The HCF of two distinct prime numbers is 1
(B) The HCF of two co prime numbers is 1
(C) The HCF of two consecutive even numbers is 2
(D) The HCF of an even and an odd number is even.

47. If the number $7254*98$ is divisible by 22, the digit at * is

- (A) 1 (B) 2
(C) 6 (D) 0

48. The sum of the prime factors of 1729 is

- (A) 13 (B) 19
(C) 32 (D) 39

49. The value of $19\frac{58}{60}$ is

- (A) 19.99 (B) 19.87
(C) 19.98 (D) 19.96

50. The greatest integer lying between -10 and -15 is

- (A) -10 (B) -11
(C) -15 (D) -14

51. 98 less than the predecessor of the greatest 3-digit number is

- (A) 900 (B) 910
(C) 901 (D) 991

52. The sum of all prime numbers between 20 and 40 is exactly divisible by

- (A) 2, 3, 9 (B) 2, 3, 7
(C) 2, 3, 10 (D) 2, 5, 11

53. A number for which sum of all its factors is _____ times the number is called a perfect number

- (A) 0 (B) 2
(C) 3 (D) None of these

54. The base of a prism is square and all its other faces are triangular in shape. It is called

- (A) Tetrahedron (B) Square Pyramid
(C) Triangular Prism (D) Rectangular Prism

55. The sum of a number and its _____ is equal to zero.

- (A) additive inverse (B) absolute value
(C) reciprocal (D) none of these

56. If the length and breadth of a rectangular book is 25 cm and 20 cm respectively, then the ratio of its length to its perimeter is

- (A) 5 : 8 (B) 5 : 18
(C) 51 : 8 (D) 18 : 5

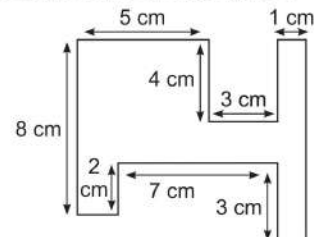
57. A right angled triangle has atmost _____ line of symmetry.

- (A) 0 (B) 1
(C) 2 (D) 3

58. The average of first ten prime numbers which are odd is

- (A) 12.9 (B) 13.8
(C) 17 (D) 15.8

59. Find area of the following figure.



- (A) 75 cm^2 (B) 55 cm^2
(C) 47 cm^2 (D) None of these

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60. Number of whole numbers lying between -5 and 5 is

- (A) 10 (B) 3
(C) 4 (D) 5

61. The value of $\frac{16}{5} + \frac{15}{8} - \frac{9}{24}$ is

- (A) $4\frac{10}{7}$ (B) $7\frac{4}{120}$
(C) $4\frac{7}{10}$ (D) $4\frac{4}{10}$

62. Pooja wants to sell a watch at a profit of 20% . She bought it at 10% less and sold it at Rs 30 less, but still she gained 20% . The cost price of watch is

- (A) Rs 240 (B) Rs 220
(C) Rs 250 (D) Rs 225

63. The per cent profit made when an article is sold for Rs 78 is twice as much as when it is sold for Rs

69. The cost price of the article is
(A) Rs 60 (B) Rs 51
(C) Rs 55.50 (D) Rs 70

64. A shopkeeper sold his goods at half the list price and thus lost 20% . If he had sold on the listed price, his gain percentage would be

- (A) 60% (B) 20%
(C) 72% (D) 35%

65. A person deposited Rs 400 for 2 years, Rs 550 for 4 years and Rs 1,200 for 6 years. He received the total simple interest of Rs 1,020. The rate of interest per annum is

- (A) 10% (B) 5%
(C) 15% (D) 20%

66. A certain sum of money lent out at simple interest amounts to Rs 1380 in 3 years and Rs 1500 in 5 years. Find the rate percent per annum.

- (A) 3% (B) 3.5%
(C) 4% (D) 5%

67. A train, 200 m long, is running at a speed of 54 km/hr. The time in seconds that will be taken by train to cross a 175 m long bridge is

- (A) 12.5 (B) 20
(C) 25 (D) 10

68. A 75 m long train is moving at 20 kmph. It will cross a man standing on the platform in

- (A) 12 seconds (B) 14 seconds
(C) 13.5 seconds (D) 15.5 seconds

69. The product of two 2-digit numbers is 2160 and their H.C.F. is 12. The numbers are

- (A) (12, 60) (B) (72, 30)
(C) (36, 60) (D) (60, 72)

70. If 42 persons consume 144 kg of wheat in 15 days, then in how many days will 30 persons consume 45 kg of wheat?

- (A) 8 days (B) 7 days
(C) 12 days (D) 6 days

71. If the complementary angle and supplementary angle of an angle P are $(13x - 11)^\circ$ and $(24x + 24)^\circ$ respectively, then find the value of P.

- (A) 54° (B) 32°
(C) 36° (D) 42°

72. The volume of a cuboid is twice the volume of a cube. If the dimensions of the cuboid are 9cm, 8cm and 6cm, the total surface area of the cube is:

- (A) 72 cm^2 (B) 216 cm^2
(C) 432 cm^2 (D) 108 cm^2

73. What is the least number of square tiles required to pave the floor of a room 15 m 17 cm long and 9 m 2 cm broad?

- (A) 840 (B) 841
(C) 820 (D) 814

74. A can do $\frac{1}{4}$ of a work in 10 days. B can do $\frac{1}{3}$ of the work in 20 days. In how many days can both A and B together do the work?

- (A) 30 days (B) 32 days
(C) 24 days (D) 25 days

75. A candidate secured 30% marks in an examination and failed by 6 marks. Another secured 40% marks and got 6 marks more than the bare minimum to pass. The maximum marks are

- (A) 150 (B) 120
(C) 100 (D) 180

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SECTION – ‘C’ : GENERAL KNOWLEDGE

76. The youngest Sikh Guru was
(A) Guru Har Krishna ji (B) Guru Angad Dev ji
(C) Guru Nanak Dev ji (D) Guru Har Rai
77. The device used to measure purity of milk is
(A) Udometer (B) Lactometer
(C) Rain Gauge (D) Galvanometer
78. The National Emblem of India was adopted on?
(A) 24 January (B) 25 January
(C) 26 January (D) 28 January
79. Onam is the festival of which Indian state?
(A) Kerala (B) Tamil Nadu
(C) Karnataka (D) Andhra Pradesh
80. Light Combat Helicopter is
(A) Tejas (B) Prachanda
(C) Arjun (D) Bhishma
81. What was the capital of Pandavas in Mahabharata?
(A) Indraprastha (B) Janakpur
(C) Ayodhya (D) Kurukshetra
82. Durand cup is related with
(A) Cricket (B) Football
(C) Badminton (D) Golf
83. Birds like Eagle can see how many times as humans?
(A) 2 (B) 3
(C) 4 (D) 5
84. A place where hens are kept is called?
(A) Apiary (B) Poultry
(C) Silos (D) Hanger
85. Which of the following is not a part of the digestive system?
(A) mouth (B) Food pipe
(C) Stomach (D) Liver
86. A type of farming in which a farmer does farming for his family only called?
(A) Shifting Cultivation (B) Intensive Farming
(C) Commercial Farming (D) Mixed Farming
87. Which of the following are chemical Preservatives?
(A) 2,4-D
(B) Sodium Meta Bi Sulphate
(C) calcium Sulphate
(D) Azithromycin
88. To soften the seed of the plant we need
(A) Manure (B) Pesticide
(C) water (D) Fertilizer
89. Rainwater harvesting is done to increase
(A) Groundwater level (B) Purity of water
(C) Fertility of soil (D) Clouds
90. Which of the following is caused by water pollution?
(A) Small pox (B) Cholera
(C) Malaria (D) Chicken Pox
91. Where are Khajuraho Temples located?
(A) Rajasthan (B) Madhya Pradesh
(C) Maharashtra (D) Goa
92. When we go down a hill we always?
(A) Walk Straight (B) Walk Bend
(C) Walk slide (D) Walk Crawling
93. What is the gravity of the moon with respect to earth?
(A) 1/3 (B) 1/4
(C) 1/5 (D) 1/6
94. World Water Day is observed on
(A) 22 March (B) 22 April
(C) 22 July (D) 22 August

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95. Which is not coal?

- (A) Peat (B) Bituminous
(C) Lignite (D) Wrought

96. The baby of Kangaroo is

- (A) Pup (B) Foal
(C) Joey (D) Cygnet

97. Where are the HQs of SAARC?

- (A) New York (B) Kathmandu
(C) Bali (D) Manila

98. Who won Vyas Samman 2023 recently?

- (A) Gyan Chaturvedi (B) Sarad Limbale
(C) Pushpa Bharti (D) Asghar Wajahat

99. First Recipient of Bharat Ratna?

- (A) Indira Gandhi
(B) Dr S Radha Krishnan
(C) Pandit Jawahar Lal Nehru
(D) Col C K Naidu

100. How many Permanent Members are in UNSC?

- (A) 5 (B) 6
(C) 7 (D) 8

SECTION – 'D' : INTELLIGENCE

101. How many times in a day (24 Hrs) are the hands of a clock are in a perpendicular to each other?

- (A) 20 (B) 22
(C) 44 (D) 48

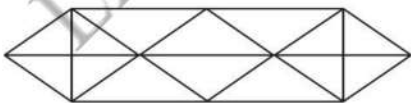
102. Which of the following is a leap year?

- (A) 1146 (B) 1254
(C) 2100 (D) 1128

103. If 14th October 2005 is Friday then which day is 14th October 2009?

- (A) Tuesday (B) Wednesday
(C) Thursday (D) Friday

104. Count the total number of Triangles of the following figure?



- (A) 20 (B) 22
(C) 24 (D) 26

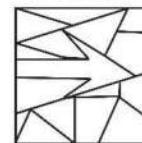
105. A watch is read 4:30. If the minutes hand shows the east direction. Hour hand shows which direction?

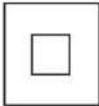
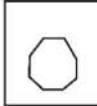


- (A) North (B) South - east
(C) South (D) North - east

106. Eight friends A, B, C, D, E, G and H are sitting around table in the same order at equal distances. Their positions are in clockwise direction. If G, who is sitting in the north exchange seat with C, and B exchange seat with F. Now who is sitting to the right of F?

- (A) G (B) E
(C) A (D) B

107. From the given answer the figure, select the one which is hidden embedded, in the question figure.



- (A)  (B) 
(C)  (D) 

108. Bullock : Cart :: Horse : ?

- (A) Plough (B) Ride
(C) Race (D) Tonga

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109. Eyes : Tears :: _____ : _____

- (A) Hunger : Bread (B) Sea : Water
(C) Heart : Artery (D) Volcano : Lava

110. 32 : 21 :: 35 : ?

- (A) 51 (B) 53
(C) 32 (D) 26

111. BCFG, JKNO, RSVW, ?

- (A) ZADE (B) HIKL
(C) STUX (D) MNPQ

112. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

aac _ bba _ cc _ baa _ cb _

- (A) abaac (B) cabcb
(C) bacbc (D) bcacb

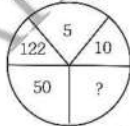
113. Sonia started from her house and travelled 4 km towards east. Then she turned left and travelled 6 km. Then she turned right and travelled 4 km. At what distance is she from starting point?

- (A) 14 km (B) 8 km
(C) 5 km (D) 10 km

114. If '+' means '-', '-' means 'x', 'x' means '÷' and '÷' means '+'. Which combination will give you the value of '0' in $42 * 4 * 12 * 20 * 9$?

- (A) ÷ + - × (B) ÷ - + ×
(C) - ÷ × + (D) × - ÷ +

115. Find the missing number.



- (A) 25 (B) 27
(C) 26 (D) 23

116. Which one of the given responses would be a meaningful order of the following?

- (1) Stone (2) Sand (5) Hill
(3) Rock (4) Boulder
(A) 2, 1, 3, 4, 5 (B) 1, 4, 2, 3, 5

(C) 5, 3, 2, 1, 4

(D) 5, 4, 2, 1, 3

117. Which one of the given responses would be a meaningful order of the following?

- (1) Twilight (2) Dawn
(3) Noon (4) Night
(A) 2, 1, 3, 4 (B) 2, 3, 1, 4
(C) 1, 2, 3, 4 (D) 1, 3, 2, 4

118. Which of the following diagrams represents the correct relationship between Books, Novels and Dictionaries?



119. 5, 21, 57, ?, 221

- (A) 96 (B) 108
(C) 121 (D) 126

Select the odd one.

120. (A) Looks (B) Beauty
(C) Character (D) Cuteness
121. (A) Book : Page (B) Table : Drawer
(C) Loom : Cloth (D) Car : Wheel
122. (A) 369 (B) 462
(C) 761 (D) 862
123. (A) BYCX (B) EVFU
(C) GTHS (D) LOIR

124. In a certain code DESIGN is written as FCUGIL, how is REPORT written in that code?

- (A) TCRMPR (B) TCRMTR
(C) TCTMPR (D) TCTNTR

125. Which letter is the 10th to the right of 11th letter from the left end in English alphabet?

- (A) T (B) U
(C) V (D) F

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