

INSTRUCTIONS

NUMBER OF QUESTIONS : 100

TIME : 2 Hrs

- 1. ATTEMPT ALL QUESTIONS WITHIN THE TIME.**
- 2. EACH QUESTION CARRIES 1 MARK**
- 3. NO NEGATIVE MARKS.**
- 4. DON'T DO ROUGH WORK ON QUESTION PAPER AND OMR.**
- 5. USE BLACK (OR) BLUE PEN FOR BUBBLING ON OMR.**

CORRECT METHOD OF BUBBLING



WRONG METHOD OF BUBBLING



INTO 8th CLASS STATE

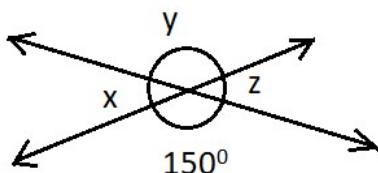
MATHEMATICS

1. The sum of all integers from -999 to 999 is _____
1) 1000 2) 0 3) -1000 4) Not defined

2. The additive inverse of '10' is _____
1) 0 2) 1 3) -10 4) $\frac{1}{10}$

3. 4 is added to a number and the sum is multiplied by 5, if 20 is subtracted from the product and the difference is divided by 8, the result is equal to 10. Find the number
1) 12 2) 16 3) 8 4) 20

4. From the figure $\angle y - [\angle x + \angle z] = ?$



1) 120^0 2) 110^0 3) 90^0 4) 100^0

5. $\{(-36) \div 12\} \div 3 = ?$

1) -1 2) 1 3) 0 4) 3

6. If $2.3084 \times a = 2308.4$, then $a = ?$

1) 10 2) 100 3) 1000 4) 10000

7. $2\left(5\frac{2}{3} - 3\frac{2}{5}\right) \div 2\frac{4}{15} = ?$

1) 2

2) $2\frac{3}{5}$

3) $7\frac{1}{15}$

4) $\frac{8}{15}$

8. Which of the following is a simple equation?

1) $x^2 + 5x + 6 = 0$ 2) $x + y + z = 10$ 3) $3x + 5 = 10$ 4) $3x^2 = 15$

9. The range of 5, 0.5, 0.05, 0.005 is _____

1) 0.05

2) 0.005

3) 4.995

4) 49.95

10. Find the mean of factors of 18.

1) 6

2) 6.5

3) 5.5

4) 7

11. In a bar graph, for a frequency its scale is 1cm=32 units, then length of the bar for 384 units is _____

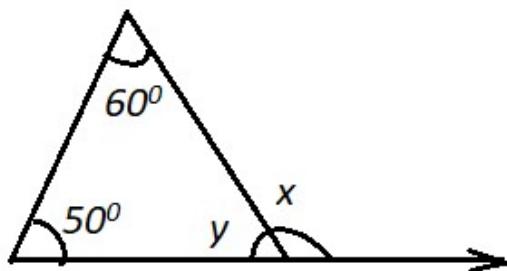
1) 14cm

2) 17cm

3) 12cm

4) 22cm

12. From the figure, $\angle x - \angle y = ?$



1) 70°

2) 20°

3) 40°

4) 50°

13. If $3x - 42 = -13x - 10$, then the value of $-x$ is _____

1) 0

2) 1

3) -2

4) 2

14. Choose a pair of negative integers whose difference gives -8.

1) (0, 8)

2) (-10, -2)

3) (-8, -5)

4) (-3, -5)

15. $(-6) \times (-5) \times (-4) \times (-3) \times (-2) \times (-1) \times 0 \times 1 \times 2 = ?$

1) -1440

2) 1440

3) 0

4) We can't say

16. When S.P and loss % is given then CP=?

1) $\frac{100 \times SP}{(100 + \text{loss}\%)} \quad 2) \frac{100 \times SP}{(100 - \text{loss}\%)}$

3) $\frac{SP}{\text{loss}\%}$

4) $\frac{SP}{(\text{loss}\% - 100)}$

17. The complementary angle of k° is _____

1) $90^\circ - k^\circ$

2) $180^\circ - k^\circ$

3) $360^\circ - k^\circ$

4) $200^\circ - k^\circ$

18. If $A = Rs. 15,624$, $P = Rs. 12,600$, $R = 9\%$, then $T = ?$

1) $2\frac{1}{3}$ years

2) $2\frac{2}{3}$ years

3) $3\frac{1}{2}$ years

4) $3\frac{2}{3}$ years

19. If mode of 2, 3, 4, 5, 2, 5, 6, 7, 0, x , 3, 9, 7, 8 is 2 then x =?

1) 2 2) $\frac{8}{4}$ 3) 5 – 3 4) All the above

20. Minimum number of acute angles in a triangle =?

1) 1 2) 2 3) 3 4) We can't say

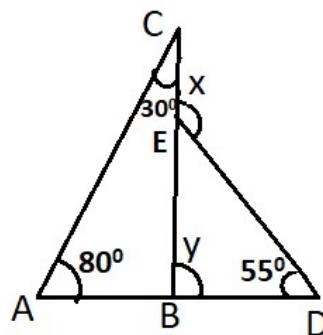
21. If 55% of 1000 \div 60% of 2000 = $k : 2k + 2$, then find k .

1) 11 2) 12 3) 13 4) 14

22. If one acute angle of a right angled triangle is 20^0 , then other angle is _____

1) 70^0 2) 20^0 3) 60^0 4) 80^0

23. From the figure, find the value of $x + y$ =?



1) 135^0 2) 80^0 3) 275^0 4) 200^0

24. Lowest form of $\frac{2}{7} \times 3\frac{1}{2} \times 1\frac{1}{5} \times 2\frac{1}{2}$ is _____

1) 3 2) $\frac{1}{2}$ 3) 4 4) $\frac{1}{3}$

25. x by $x\%$ =?

1) 100 2) 200 3) 300 4) 1

26. The place value of 'tenths' digit in 763.128 is _____

1) 1 2) $\frac{1}{10}$ 3) 0.1 4) Both 2 & 3

27. If two complementary angles measure $(5x - 3)^0$ and $(8x + 2)^0$, then the value of

$5x^0$ is _____

1) 13^0 2) 65^0 3) 55^0 4) 35^0

28. The simple interest on a sum of money is $\frac{4}{9}$ of the principal and the time period is equal to the rate of interest. Then R=?

1) $6\frac{2}{3}\%$ 2) $7\frac{2}{3}\%$ 3) $6\frac{1}{3}\%$ 4) $7\frac{1}{3}\%$

29. Which of the following measurements form a triangle?

1) 4cm, 4cm, 8cm 2) 5cm, 6cm, 11cm 3) 7cm, 18cm, 4cm 4) 7cm, 8cm, 9cm

30. The product of two improper fractions is _____ the two fractions.

1) greater than 2) less than 3) equal to 4) Both 2 & 3

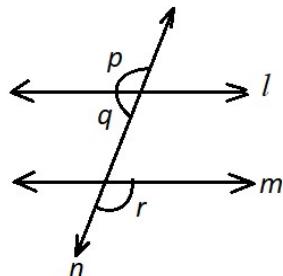
31. Indu has ₹30, she purchased certain items for ₹2, ₹8, ₹17 then the remaining money with her _____

1) ₹5 2) ₹3 3) ₹-3 4) ₹-5

32. 40% of 200-20% of 50=?

1) 70 2) 90 3) 80 4) 60

33. From the figure $l \parallel m$ and n is transversal, $\angle p : \angle q = 3:2$ then $\angle r = ?$



1) 36° 2) 72° 3) 108° 4) 144°

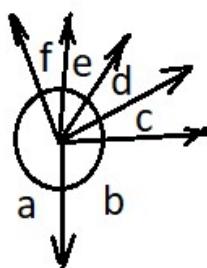
34. In a problem 5 is repeated 6 times, 6 is repeated 9 times, 3 is repeated 3 times, then mode is _____

1) 5 2) 6 3) 9 4) 3

35. The mean of 12, 12, 12, 12, x is 12 then x is _____

1) 60 2) 5 3) 12 4) 13

36. From the figure, a pair of adjacent angle is _____



1) $\angle a, \angle c$ 2) $\angle b, \angle e$ 3) $\angle d, \angle f$ 4) $\angle f, \angle a$

37. The median of 3, 0.3, 0.03, 0.003, 0.0003 is _____

1) 0.3 2) 0.03 3) 0.003 4) 3

38. Rahul scored twice as many runs as Kohli. Together, their runs fell two short of a double century. How many runs did each one score?

1) Rahul = 60, Kohli = 132 2) Rahul = 60, Kohli = 138
3) Rahul = 132, Kohli = 66 4) Rahul = 138, Kohli = 60

39. If $\frac{9}{z} = \frac{-11}{5}$ then $-(-z) = ?$

1) $\frac{45}{11}$

2) $-\frac{11}{45}$

3) $-\frac{45}{11}$

4) $\frac{11}{45}$

40. Suhana said “multiplying my number by 5 and adding 8 to it gives the same answer as subtracting my number from 20”. Find Suhana’s number.

1) 4

2) 3

3) 2

4) 1

ARITHMETIC AND LOGICAL REASONING QUESTIONS:

41. If 1000000 is divided by a certain number, then the quotient is 999 and the remainder is 1, then choose the divisor.

1) 11

2) 101

3) 1001

4) 10001

42. In a certain code language, if ‘DETAIL’ is coded as ‘EGUCJN’, then how will ‘HIGHER’ be coded in that language?

1) IKHJFT

2) IJHIFS

3) JKIJGT

4) JKGIFS

43. If @ denotes +, \$ denotes \div , # denotes \times and * denotes $-$, then find the value of $32@4\#57\$19*6$

1) 50

2) 38

3) 36

4) 48

44.	4	5	8
	3	?	2
	4	10	4
	48	200	64

From the above table, find the missing number?

1) 4

2) 185

3) 40

4) 20

45. Bottle: water :: ? : ?

1) Plate : Spoon

2) Write : Hand

3) Pen : Ink

4) Book : Print

46. If day before yesterday was Sunday, what day will fall on day after tomorrow?

1) Tuesday

2) Thursday

3) Wednesday

4) Friday

47. Seema’s younger brother Sohan is older than Seeta. Sweta is younger than Deepti but elder than Seema, who is the eldest?

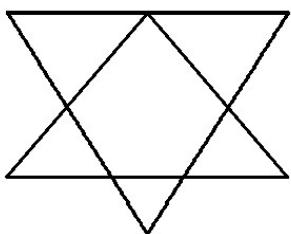
1) Deepti

2) Seema

3) Sweta

4) Seeta

48. How many triangles are there in the given figure?



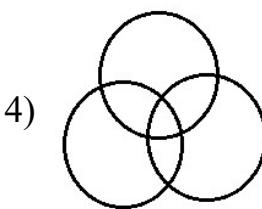
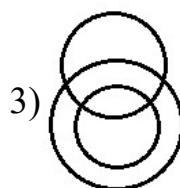
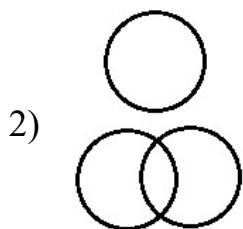
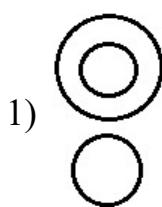
1) 6

2) 7

3) 8

4) 10

49. Which of the following Venn diagrams represents the relationship between Asia, India & Canada?



50. Select the odd word from the given alternatives.

1) Hindi

2) Telugu

3) Oriya

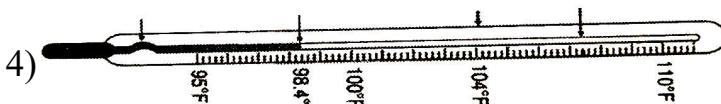
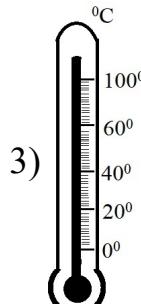
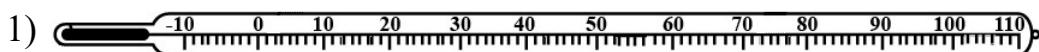
4) India

GENERAL SCIENCE

51. Choose the wrong statement

- 1) Mercury expands easily on heating
- 2) Mercury is easily visible being shining and opaque
- 3) Mercury is considered toxic substance
- 4) Mercury is the solid metal

52. Which of the following thermometers is a clinical thermometer?



53. _____ are used in constructions to keep out houses cool or warm

- 1) Water proof cement
- 2) Red bricks
- 3) Hollow bricks
- 4) All of these

54. A uniform metal rod is used as a bar pendulum. If the room temperature rises by 10°C , and the coefficient of linear expansion of the metal of the rod is 2×10^{-6} per $^{\circ}\text{C}$, the period of the pendulum will have percentage increase of

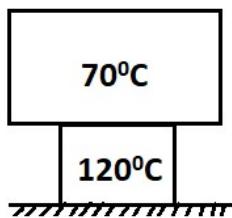
- 1) -2×10^{-3}
- 2) -1×10^{-3}
- 3) 2×10^{-3}
- 4) 1×10^{-3}

55. Relation between joule and calorie is

- 1) $1 \text{ cal} = 0.24\text{J}$
- 2) $1 \text{ cal} = 4.2\text{J}$
- 3) $1 \text{ cal} = 420\text{J}$
- 4) $1 \text{ cal} = 4.02\text{J}$

56. Two blocks of the same material are placed in contact, as shown in the diagram.

Which one is true about the heat flow?



- 1) Heat flows from the bottom to the top as the smaller block has higher temperature than the bigger one.
- 2) Heat flows from the top to the bottom as the bigger block has greater mass.
- 3) Heat flows from the top to the bottom as the bigger block has higher potential energy.
- 4) None of these.

57. The temperature of a body rises by 1°C , the corresponding rise on Fahrenheit scale will be

1) 0.9°F 2) 3.6°F 3) 2.7°F 4) 1.8°F

58. Example of convection

1) Blood circulation 2) Sea breeze & land breeze

3) Microwaves emitted from oven 4) Both 1 & 2

59. A wooden block of mass 10g is dropped from the top of the cliff 100m high. Simultaneously a bullet of mass 10g is fired from the foot of a cliff upward with a velocity 100 ms^{-1} . The bullet and the wooden block will meet each other after a time (in sec)

1) 7 2) 10 3) 0.5 4) 1

60. Hot water poured into four containers is shown below. Which container will cause the temperature of the water to drop at the fastest rate?



61. Sting of an ant contains

1) Vinegar 2) Common salt 3) Formic acid 4) Milk of magnesia

62. Choose the acid-base indicator

1) Orange juice 2) Litmus 3) Turmeric 4) Both 2 and 3

63. Ascorbic acid is also called as

1) Vitamin - A 2) Vitamin - B 3) Vitamin - K 4) Vitamin - C

64. Phenolphthalein gives pink colour in _____ type of solution

1) Acidic 2) Basic 3) Neutral 4) Both 1 and 2

65. Litmus is extracted from _____

- 1) Lychee
- 2) Lichens
- 3) Turmeric
- 4) All of these

66. In what way does ozone protect us from the sun's harmful radiation

- I) By absorbing the UV radiations from the sun
- II) By breaking down the oxygen
- III) By acting as a protective shield

- 1) Statement I is true, II and III are false
- 2) All statements are correct
- 3) Statement I and II are correct, but III is false
- 4) Statement I and II are false, but III is correct

67. Two methods by which rusting of iron can be prevented are _____ and _____.

- 1) Galvanisation and Respiration
- 2) Galvanisation and Condensation
- 3) Galvanisation and Painting
- 4) Galvanisation and Waxing

68. Which of the following word equations represents neutralization?

- 1) Sodium hydroxide + hydrochloric acid \rightarrow sodium chloride + water
- 2) Calcium carbonate \rightarrow calcium oxide + carbon dioxide
- 3) Hydrogen + oxygen \rightarrow water
- 4) Methane + oxygen \rightarrow carbon dioxide + water

69. Breaking of a glass rod is a /an

- 1) Physical change
- 2) Irreversible change
- 3) Reversible change
- 4) Both (1) & (2)

70. Rusting is a **P** process and it occurs in the presence of **Q** and **R**. It becomes **S** in the presence of sea water. Identify P, Q, R and S.

	P	Q	R	S
1)	Physical	Air	Water	Slower
2)	Slow	Water	Air	Faster
3)	Photochemical	Water	Air	Faster
4)	Biochemical	Air	Water	Slower

71. Select the option that correctly completes the given analogies.

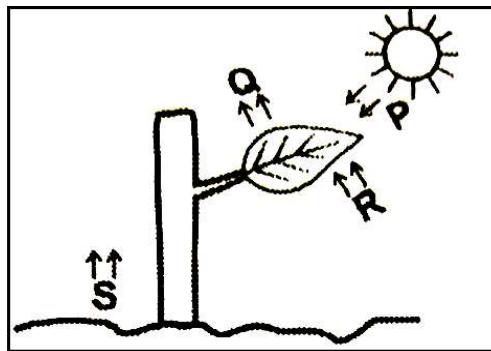
- (i) Water soluble vitamin : Vitamin B :: Fat soluble : P vitamin
- (ii) Vitamin B₃ : Niacin :: Vitamin B₇ : Q.
- (iii) R : Hyponatremia :: Iron : Anaemia

P	Q	R
1)Vitamin K	Thiamine	Phosphorus
2)Vitamin A	Biotin	Sodium
3)Vitamin C	Thiamine	Potassium
4)Vitamin E	Riboflavin	Sodium

72. How the desert plant leaves modified to reduce transpiration?

- 1) Tendrils
- 2) Bark
- 3) Flowers
- 4) Scales

73. Which represents the movement of water?



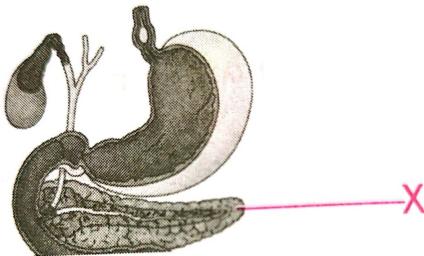
1) P 2) Q 3) R 4) S

74. Which of the following is true regarding the milk teeth?

a) The first set of teeth grows during infancy are called milk teeth
b) They fall off at the age of 10 – 12 years
c) They are replaced by permanent teeth

1) a only 2) b only 3) a and b both 4) a and c only

75. The leaf like structure is _____



1) Liver 2) Pancreas 3) Gall bladder 4) Stomach

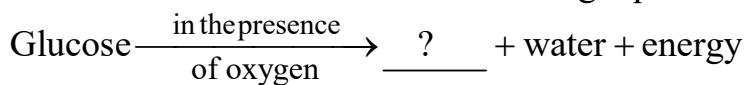
76. The length of the small intestine is _____

1) 7.5 metres 2) 6 metres 3) 7 metres 4) 8 metres

77. Which of the following solution will be given for rehydration?

1) Oral dehydration solution 2) Oral rehydration solution
3) Glucose solution 4) Mango juice

78. Find the missed one from the following equation



1) Nitrogen 2) Oxygen 3) Carbon dioxide 4) Hydrogen

79. The single celled organisms used to make wine and beer is _____

1) Yeast 2) Amoeba 3) Cockroach 4) Frog

80. **Statement A :** The diaphragm forms the base of the chest cavity.

Statement B : The diaphragm and rib-cage both get involved in breathing.

1) Both the statements A and B are correct
2) Statement A and B are wrong
3) Statement A is correct whereas statement B is wrong
4) Statement A is wrong and statement B is correct

81. After heavy exercise, which substances get accumulated in our muscles

- 1) Alcohol and CO₂
- 2) Lactic acid and CO₂
- 3) CO₂
- 4) Lactic acid

82. Which organs excrete excess mineral salts and urea from the body?

I-Lungs, II-skin, III-kidneys

- 1) (I) and (II) only
- 2) (I) and (III) only
- 3) (II) and (III) only
- 4) (I), (II) and (III)

83. Who discovered the circulation of blood?

- 1) Lennac
- 2) Marcello Malpighi
- 3) William Harvey
- 4) Newlas

84. The amount of urine excreted per day _____

- 1) 1 – 1.8L
- 2) 2 – 2.5L
- 3) 1 – 1.5L
- 4) 3 – 3.5L

85. The table below shows the types of blood vessels and their functions. Which blood vessel carries deoxygenated blood from the body to the heart?

Blood vessel type	Function
Artery	Carries oxygenated blood away from the heart
Vein	Carries deoxygenated blood towards the heart
Capillary	Facilitates the exchange of nutrients and gases

- 1) Artery
- 2) Vein
- 3) Capillary
- 4) None of the above

86. Find the correct statement

- 1) Xylem and phloem form the vascular tissue
- 2) Vascular tissue that transport the water and nutrients is phloem
- 3) Vascular tissue that transport food to all parts the plant is xylem
- 4) Cell is a group of tissues that perform specialised function

87. Which of the following statements is incorrect for the given food web?

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graph TD
    Plant[Plant] --> Sparrow[Sparrow]
    Plant --> Grasshopper[Grasshopper]
    Sparrow --> Snake[Snake]
    Grasshopper --> Frog[Frog]
    Snake --> Eagle[Eagle]
    Frog --> Snake
  
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- 1) There are two primary consumers in the given food web
- 2) There are three food chains in this food web
- 3) A decrease in population of frog will cause an increase in grasshopper population
- 4) The snake is both predator and prey

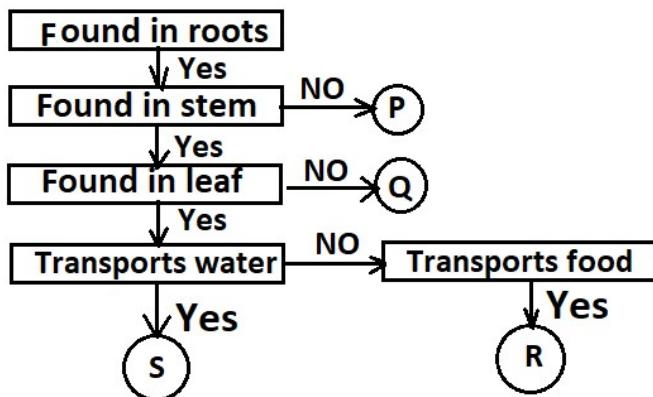
88. Read the given passage.

Pulmonary _____ carries _____ rich blood from the heart to the lungs and pulmonary _____ carries _____ rich blood from the lungs to the heart.

Select the option that correctly fills up the blank spaces in the above passage.

- 1) Vein, Carbon dioxide, Artery, Oxygen
- 2) Vein, Oxygen, Artery, Carbon dioxide
- 3) Artery, Carbon dioxide, Vein, Oxygen
- 4) Artery, Oxygen, Vein, Carbon dioxide

89. Study the given flow chart carefully and select the option that correctly identifies xylem and phloem.



Xylem

- 1) P
- 2) R
- 3) S
- 4) Q

Phloem

- 1) R
- 2) S
- 3) R
- 4) R

90. Photosynthesis includes the substances (i) Carbon dioxide, (ii) Oxygen, (iii) Sugar and (iv) water.

What is the correct equation of photosynthesis?

- 1) $(i) + (ii) \xrightarrow[\text{Chlorophyll}]{\text{light}} (iii) + (iv)$
- 2) $(ii) + (iii) \xrightarrow[\text{Chlorophyll}]{\text{light}} (i) + (iv)$
- 3) $(i) + (iv) \xrightarrow[\text{Chlorophyll}]{\text{light}} (iii) + (ii)$
- 4) $(ii) + (iii) \xrightarrow[\text{Chlorophyll}]{\text{light}} (i) + (iv)$

ENGLISH

91. Identify the passive voice of the given sentence.

Sheetal wrote a novel.

- 1) A novel was being written by Sheetal.
- 2) A novel was written by Sheetal.
- 3) A novel is written by Sheetal.
- 4) A novel has been written by Sheetal.

92. This bridge was built _____ 2010.

1) of 2) from 3) in 4) at

93. Identify the indirect speech of the given sentence.

He said to her, "I am going to market now."

1) He told her that he is going to market then.
2) He said that he was going to market then.
3) He told her that he was going to market then.
4) He told her that he went to market then.

94. Name the opposite gender of the word 'fox'.

1) mare 2) vixen 3) goose 4) lioness

95. Identify the tense of the underlined verb.

She has a good collection of books.

1) Simple present 2) Present perfect
3) Present continuous 4) Past perfect

96. Identify the part of speech of the underlined word.

Lakshmi is a beautiful girl.

1) noun 2) pronoun 3) adjective 4) adverb

97. I am _____ Indian at heart.

1) a 2) an 3) the 4) No article

98. He _____ (watch) a movie yesterday.

1) watch 2) watches 3) will watch 4) watched

99. Identify the negative form of the given sentence.

Anu likes chocolates.

1) Anu didn't like chocolates. 2) Anu do not like chocolates.
3) Anu doesn't like chocolates. 4) Anu won't like chocolates.

100. Name the plural form of the word 'deer'.

1) deer 2) deers 3) both a & b 4) none

THE END