

Std 6- NSTSE Sample Test Paper

This Test Paper Contains 4 Sections.
Read every question carefully.

Mathematics

1. The side of a square is half of a cm. Find the perimeter.

- (A) $4a$ cm (B) $\frac{a}{8}$ m (C) $2a$ cm (D) $\frac{a}{4}$ cm

2. Which of the following fractions is the largest ?

- (A) $\frac{29}{30}$ (B) $\frac{29}{23}$ (C) $\frac{29}{27}$ (D) $\frac{29}{25}$

3. What is a triangle with two acute angles and a right angle ?

- (A) A right angled triangle. (B) An acute angled triangle.
(C) An equilateral triangle. (D) A scalene triangle.
4. In numbers from 1 to 100, how many times does the digit 2 appear ?

- (A) 19 (B) 10 (C) 11 (D) 20

5. $3.5 + 4.05 - 6.005 = X$. Find the value of X.

- (A) 1.545 (B) 1.095 (C) 1.6 (D) 2.095

6. Which of the following products is an odd number?

- (A) even \times odd \times even (B) odd \times odd \times even
(C) even \times even \times even (D) odd \times odd \times odd

7. When the perimeter and area of a square are numerically equal, what is the numerical value of the measure of its side ?

- (A) 1 (B) 2 (C) 4 (D) 8

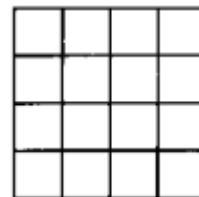
8. The smallest 4-digit number formed by using the digits 5, 0, 3, 1 and 7 only once contains

- (A) 0 in thousands place. (B) 5 in tens place.
(C) 3 in tens place. (D) 1 in units place.

9. Simplify: $9 - [8 + \{7 - (6 - 5 - 4)\}] - 1$

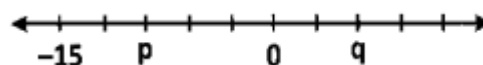
- (A) 2 (B) -2 (C) 0 (D) -10

10. How many squares are there in the following figure ?



- (A) 16 (B) 17 (C) 25 (D) 30

11. The figure given below is a number line.



What is the value of $p + q$?

- (A) -9 (B) -6 (C) -3 (D) 3

12. How many sq.cm make a sq.m ?

- (A) 100 (B) 1000 (C) 10000 (D) 10

13. A rope, $36\frac{1}{3}$ m long, was cut into three parts

measuring $12\frac{2}{5}$ in, $13\frac{1}{2}$ m and $5\frac{4}{15}$ m

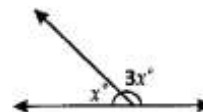
respectively. What was the length of the rope left ?

- (A) $5\frac{1}{6}$ m (B) $7\frac{2}{5}$ m (C) $9\frac{1}{6}$ m (D) $11\frac{2}{5}$ m

14. Three bells toll together at intervals of 9, 12 and 15 minutes. If they start tolling together, after what time will they toll next ?

- (A) 1 hour (B) $1\frac{1}{2}$ hours (C) $2\frac{1}{2}$ hours (D) 3 hours

15. In the given figure, what are the magnitudes of the angles shown ?



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Physics

26. Which property of copper is used for making electrical wires ?

- (A) Elastic (B) Conductive (C) Malleable (D) Shiny

27. We cannot see an object when

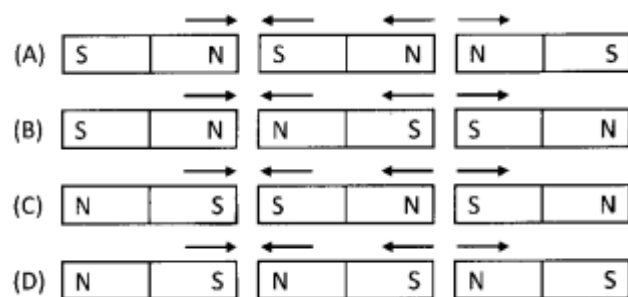
- (i) it reflects light,
(ii) it casts a shadow,
(iii) there is no light.

- (A) Only (i) (B) Only (ii)
(C) Only (iii) (D) All the three

28. Ten metres is equal to

- (A) 100 cm (B) 1,00,000 mm
(C) 1,000 cm (D) 1,000 μ m

29. Which of the figures given below shows the correct direction of magnetic force ?



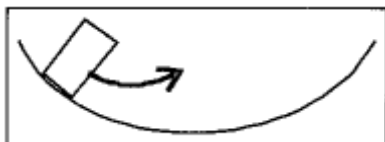
30. Pure water is a non-conductor of electricity but can be made conducting by adding to it

- (A) sugar. (B) drops of oil. (C) salt. (D) pieces of wood.

31. Air is not visible because it

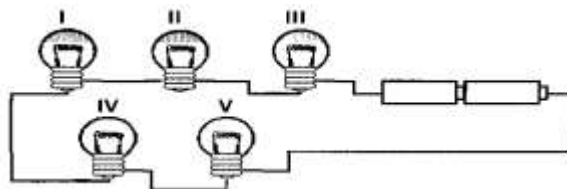
- (A) is nearly a perfectly transparent substance
(B) neither absorbs nor reflects light
(C) transmits whole light
(D) all the above are correct

31. Identify the motion of the block shown in the figure.



- (A) Oscillatory motion (B) Translatory motion
(C) Curvilinear motion (D) Periodic motion

32. The diagram below shows five different bulbs connected in a series circuit with two dry cells.



How many bulbs will light up ?

- (A) 3 (B) 4 (C) 5 (D) All the bulbs

34. Where is the magnetism maximum in case of horse-shoe magnet ?

- (A) In both the poles (B) In south pole
(C) In north pole (D) In between the two poles

35. Which one is odd man out ?

- (A) A car taking turn on a curved road
(B) Motion of a swing
(C) Motion of needle end of a sewing machine
(D) Motion of an engine piston

36. In an electric torch, electric energy is converted into

- (A) light energy. (B) heat energy.
(C) sound energy. (D) both light and heat energy.

37. Four students P, Q, R and S commented on a rod magnet that was cut into two pieces.

P : The rod magnet would become stronger.

Q : Each piece would become a magnet.

R : The rod magnet would lose its magnetism totally.

S : One piece would have stronger magnetism than the other.

Whose statement is true ?

- (A) S (B) Q (C) R (D) P

38. Shadows are

- (A) virtual. (B) real. (C) illusion. (D) permanent.

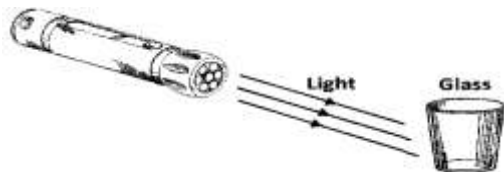
39. A test tube measures 125 mm in length. Which of the following is also a correct length for this test tube ?

- (A) 0.125 m (B) 1.25 cm (C) 1.25 m (D) 12.5 m

40. Which material can be used to make the needle of a compass ?

(A) Aluminium (B) Gold (C) Cobalt (D) Copper

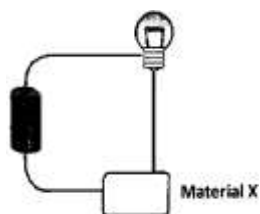
41. There is no dark shadow formed by the glass when light is shone on it in the given figure.



This is because

- (A) it is not night time yet.
- (B) the light is not strong enough.
- (C) the glass is a transparent object.
- (D) the glass is an opaque object.

42. Given below is a list of materials that can be chosen to replace material X to light up the bulb, EXCEPT

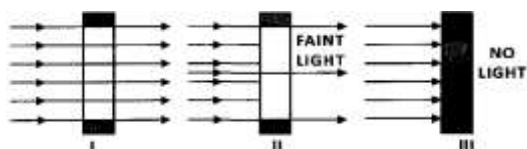


(A) cotton. (C) salt water. (B) iron. (D) mercury.

43. The magnetic strength of a magnet

- (A) is concentrated at one point in the centre of the magnet.
- (B) is concentrated at one point at the end of the magnet.
- (C) is concentrated at two points near the ends of the magnet.
- (D) is spread uniformly throughout the magnet.

44. Which figure represents the translucent medium?



(A) I only (B) II only (C) I and III only (D) III only

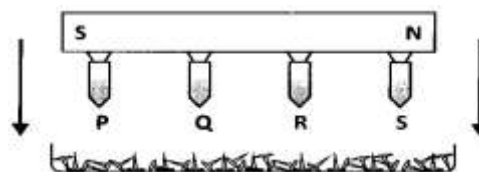
45. The hands of a clock and the spokes of a wheel are in

- (A) rotatory motion, (B) revolutionary motion.
- (C) oscillatory motion. (D) translatory motion.

46. The filament of a bulb is a/an

- (A) conductor. (B) insulator.
- (C) semi-conductor. (D) both (A) and (B)

47. Four iron nails were fixed onto a bar magnet as shown below. The set-up was lowered into a container of thumbtacks.



Which iron nail(s) would be able to attract the most thumbtacks ?

- (A) P only (B) P and Q only
- (C) R and S only (D) P and S only

48. The path along which light travels in a homogeneous medium is called the

- (A) beam of light. (B) ray of light.
- (C) pencil of light. (D) none of these.

49. Which of the following does NOT affect the brightness of a bulb in a circuit ?

- (A) The number of batteries in the circuit.
- (B) The arrangement of the batteries in the circuit.
- (C) The number of bulbs in the circuit.
- (D) The length of the wire in the circuit.

50. Motion of a screw while going into the wood is an example of

- (A) linear and spin motion (B) rotation and revolution.
- (C) rotation and spin motion. (D) rotation and linear motion.

Chemistry

51. An example of change of state is

- (A) melting. (B) rusting.
- (C) evaporation. (D) both (A) and (C)

52. A mixture of tea leaves and iron filings can be separated by

- (A) filtration (B) hand picking.
(C) magnet. (D) sieving.

53. Using the following statements deduce the hardness of the following four materials.

- Tungsten carbide will drill through steel and glass.
- Wood can be scratched by glass.
- Both steel and tungsten carbide will scratch glass.

Which is the correct order of increasing hardness for the four materials ?

- (A) Wood, steel, glass, tungsten carbide
(B) Wood, glass, steel, tungsten carbide
(C) Wood, tungsten carbide, glass, steel
(D) Wood, tungsten carbide, steel, glass

54. A family of six used 42 000 l of water in 2 weeks. How much water did each member use in 1 week on an average ?

- (A) 7000 l/week (B) 3500 l/week
(C) 21000 l/week (D) 21 l/week

55. Which of the following is NOT a physical change?

- (A) Wet clothes under the sun become dry.
(B) Wood burns to form ash.
(C) A potato is cut into smaller pieces.
(D) Chocolate melts on a hot day.

56. A ball sinks in oil. What does this tell us ?

- (A) The ball is a very big object.
(B) The ball has a very big mass.
(C) The gravity is very strong.
(D) The ball is denser than oil.

57. An empty bottle with a balloon fixed to its mouth is placed in a trough of hot water. What do you think will happen in this experiment ?

- (A) Water will be seen inside the bottle.
(B) The balloon will expand.
(C) Steam starts to exist inside the bottle.
(D) All the answers are correct.

58. What does hail consist of ?

- (A) Granular ice (B) Crystals of ice
(C) Water droplets
(D) Masses of ice in layers one above the other.

59. A material is not flexible, hard and does not change easily. Which item below is best made with this material ?

- (A) Balloon (B) Key (C) Clothes (D) Sofa

60. What is the easiest way to separate a mixture of two solids with different sizes ?

- (A) Evaporation (B) Filtration
(C) Sieving (D) Sedimentation

61. Which key shows the material with three of its properties correctly listed ?

	Conduction of electricity	Transparency	Malleability	Conclusion
(A)	Conductor	Opaque	Non-malleable	Fibre
(B)	Non-conductor	Transparent	Malleable	Plastic
(C)	Non-conductor	Transparent	Non-malleable	Glass
(D)	Conductor	Opaque	Malleable	Ceramic

62. When a little bit of curd is added to milk and it is left undisturbed for sometime, the milk changes into curd. It is an example of

- (A) Fast chemical change (B) Fast physical change
(C) Slow chemical change (D) Slow physical change

63. Muddy water often involves the process of separating insoluble solid particles from the water. Which separation technique helps to remove solid particles from the water ?

- (A) Filtration (B) Sedimentation
(C) Distillation (D) Both (A) and (B)

64. Water is a compound because

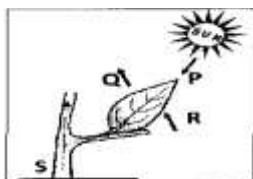
- (A) it exists as a solid, a liquid or a gas.
(B) it contains hydrogen and oxygen.
(C) it contains two different elements joined by chemical bonds.(D) it cannot be split up into simpler substances by chemical means.

65. Which material cannot be found in nature ?
 (A) Metal (B) Rock (C) Wood (D) Plastic
66. The gas replaced or renewed by plants in photosynthesis is
 (A) argon (B) nitrogen (C) carbon dioxide (D) oxygen
67. Photosynthesis is
 (A) an exothermic process. (B) an endothermic process.
 (C) a physical process. (D) a thermostatic process.
68. Stones and other undesirable substances are separated from food grains by
 (A) handpicking, (B) filtration.
 (C) winnowing. (D) magnetic separation.
69. A frying pan is usually made of stainless steel, iron or aluminium because it must
 (A) be strong and not break.
 (B) conduct heat easily (C) not burn.
 (D) not react with the food being cooked.
70. In the liquid form, water exists in
 (A) ponds, lakes, atmosphere and rivers.
 (B) dams, rivers, ponds and glaciers.
 (C) seas, oceans, glaciers and hills.
 (D) rivers, lakes, seas and oceans.

Biology

71. Which labelled arrow represents the movement of oxygen in the given figure ?

- (A) P
 (B) Q
 (C) R
 (D) S

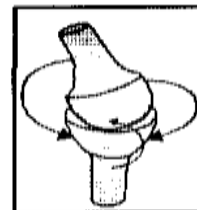


72. What is the function of the tendrils of the cucumber plant ?
 (A) It holds the plant firmly to the ground.
 (B) It helps the plant to climb up a support.
 (C) It stores nutrients for the plant.
 (D) It helps the plant to carry out photosynthesis.

73. Which of the following options comprises various stages in the life of an organism in proper sequence ?

- (A) Birth, reproduction, growth, death.
 (B) Growth, reproduction, birth, death.
 (C) Birth, reproduction, death, growth.
 (D) Birth, growth, reproduction, death.

74. Which of the following joints work as in the figure given below ?

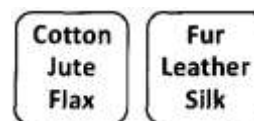


- (A) Ankle and knee joints
 (B) Hip and shoulder joints.
 (C) Neck and wrist joints.
 (D) Shoulder and knee joints.

75. Which of these includes culturing of earthworms and redworms ?

- (A) Pediculture (B) Vermicomposting
 (C) Sericulture (D) Pisciculture

76. Given below are two groups of materials used to make clothing.



On what basis these have been grouped ?

- (A) Air space inside fibres.
 (B) Air space between fibres.
 (C) Water absorption.
 (D) The basis of their sources.

77. The food items given below belongs to which of the following groups ?

Beans, Peas, Pulses, Meat

- (A) Fats (B) Proteins
 (C) Vitamins (D) Carbohydrates

78. Some things were buried in wet ground. Several years later they were dug up. Which thing is most likely to have stayed the same ?

- (A) A newspaper (B) A paper cup
 (C) A potato peel (D) A plastic glass

79. Birds like hen, duck and turkey are categorised under which of the following groups ?

- (A) Apiculture (B) Poultry birds
(C) Vermiculture (D) Sericulture

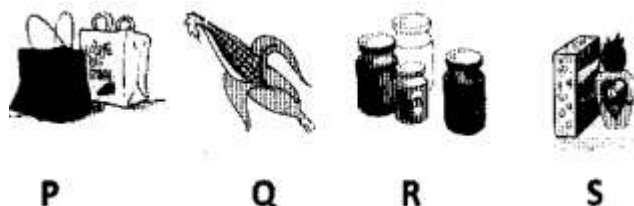
80. Which of the following food substance deficiency leads to rickets ?

- (A) Vitamin D (B) Vitamin A
(C) Vitamin C (D) All of these

81. Which of the following does not belong to the group formed by the others ?

- (A) Tomato (B) Pumpkin (C) Chilly (D) Turnip

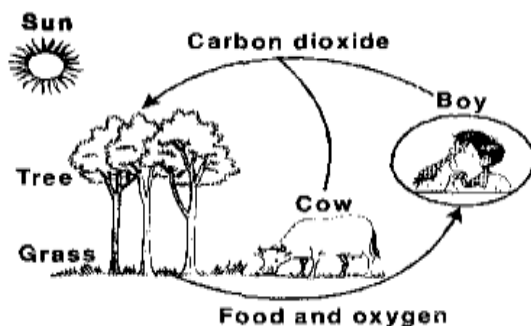
82. Observe some of these items given below.



Which of these items cannot be recycled?

- (A) P (B) Q (C) R (D) S

83. What does the figure given below represent ?

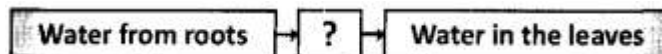


- (A) Interdependence between plants.
(B) Interdependence between plants and animals.
(C) Interdependence between animals.
(D) Interdependence between abiotic factors.

84. Which joint is present at the knee and arm ?

- (A) Ball and socket joint. (B) Pivot joint
(C) Hinge joint (D) Fixed joint

85. Which of the following should come in the empty box given below ?



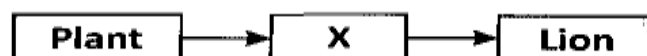
- (A) Flowers (B) Stem (C) Fruits (D) Bark

86. Which fibre on burning smells like burning hair ? (A) Cotton (B) Flax (C) Wool (D) Jute

87. How is roughage important to humans ?

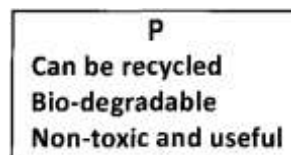
- (A) Prevents constipation
(B) Builds and repairs tissues
(C) Maintains the health of the body
(D) Produces haemoglobin in red blood cells

88. Which of the following groups of animal can X be?



- (A) Autotroph (B) Carnivore
(C) Herbivore (D) Producer

89. Read the information about a substance 'P' given below.



Which of the following substance is 'P' ?

- (A) Paper (B) Glass bottle
(C) Metal can (D) Plastic bottle

90. Which of these plants are light spongy and have numerous air spaces in their stems ?

- (A) Mesophytes (B) Xerophytes
(C) Bryophytes (D) Hydrophytes

General Awareness

91. Sardar Vallabhbhai Patel giant statue, a big initiative of P.M. Narendra Modi is to be called as?

- (A) Statue of Liberty (B) Statue of Equality
(C) Statue of Freedom (D) Statue of Unity

92. What is a 'pistachio' ?

- (A) A beetle (B) A belt (C) A pistol (D) A nut

93. Who wrote the classic novel 'Oliver Twist' ?

- (A) William Thackeray (B) Lewis Carroll

(C) Bram Stoker (D) Charles Dickens

94. In which Brothers Grimm tale does a talking mirror anger a wicked queen ?

(A) Rapunzel (B) Alice in Wonderland

(C) Snow White (D) Hansel and Grete!

95. The given logo belongs to which company ?



(A) Nike (B) Bajaj (C) Ranbaxy (D)

Reebok

96. The moon 'Titan' belongs to which planet ?

(A) Saturn (B) Neptune (C) Uranus (D)

Jupiter

97. What does the acronym CEO stand for ?

(A) Central Executive Officer

(B) Chief Executive Officer

(C) Central Exchange Officer

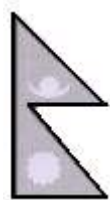
(D) Chief Extensive Officer

98. Who painted the portrait of Mona Lisa ?

(A) John Appelseed (B) Leonardo Da Vinci

(C) Marconi (D) Grahambell

99. Which country has the flag shape shown below ?



(A) Japan (B) China (C) Korea (D)

Nepal

100. Name the festival of Indian Culture

inaugurated by President Pranab Mukherjee in Moscow.

(A) United Russia (B) Namaste Russia

(C) Khushaal Russia (D) Lovely Russia



Answer Key

1. C	2. B	3. A	4. D	5. A	6. D	7. C	8. C	9. B	10. D
11. C	12. C	13. A	14. D	15. C	16. C	17. C	18. C	19. C	20. A
21. A	22. C	23. A	24. C	25. D	26. B	27. C	28. C	29. A	30. C
31. D	32. C	33. B	34. D	35. A	36. A	37. B	38. B	39. A	40. C
41. C	42. A	43. C	44. B	45. A	46. A	47. D	48. B	49. D	50. D
51. D	52. C	53. B	54. B	55. B	56. D	57. B	58. D	59. B	60. C
61. C	62. C	63. D	64. C	65. D	66. D	67. B	68. A	69. B	70. D
71. B	72. B	73. D	74. B	75. B	76. D	77. B	78. D	79. B	80. A
81. D	82. B	83. B	84. C	85. B	86. C	87. A	88. C	89. A	90. D
91. D	92. D	93. D	94. C	95. D	96. A	97. B	98. B	99. D	100. B