Name ☐☐☐☐☐☐☐☐☐☐☐

Hall Ticket No. ☐☐☐☐☐☐☐

Name of the Invigilator ....

Signature ....

STD-8

**Maximum Marks : 100
Time : 90 Minutes**

INSTRUCTIONS

1. This test of 60 minutes duration, contains 45 questions and is meant to be taken in one sitting. (Std. III to VIII)

2. Marks are **NOT** deducted for wrong answers.

3. Do any rough work on the test itself (wherever space is available). Do not use any additional paper for rough work.

4. You are **NOT** allowed to use a calculator.

5. Read the instructions given in the answer sheet before answering the questions.

   (i) Fill in your Hall Ticket No. in the Boxes provided.

   Ex : | 7 | 5 | 2 | 6 | 4 | 1 | 8 |

6. Each question is provided with four or five answers. The answer which you feel is the best, identify by darkening the circle with pen.

   Example :

   (A) ● (C) (D)

7. Return the OMR answer sheet to the invigilator at the end of the Examination.

8. From Class three onwards, the test booklet can be retained by the student.

NTA Council

Shalom Communications
P.O. ROAD, TRICHUR
KERALA - 68 00 01

Choose the right answer and darken in the OMR answer sheet

MATHEMATICS

1. **If Ranjit can sell 16 tennis balls, he makes a profit of Rs. 32. If the number of balls sold and amount of profit are in direct variation. How many balls he should sell to make a profit of Rs. 144?**

   a) 72   b) 36

   c) 144   d) 48

   e) None of these

2. **The price of TV is Rs. 13,000. The sales tax charged on it is, at the rate of 12%. Find the amount that Manish will have to pay if he buys it.**

   a) Rs. 14,560   b) Rs. 15,460

   c) Rs. 14,650   d) Rs. 15,640

   e) None of these

3. **If $x + y = 13$ and $xy = 15$, then the value of $x^2 + y^2$ is:**

   a) 139   b) 129

   c) 159   d) 169

   e) None of these

**4. A quadrilateral whose both pairs of opposite sides are parallel is called:**

a) a trapezium   b) A rhombus

c) A triangle   d) A parallelogram

e) None of these

5. Diagonals necessarily bisect opposite angles in a:

a) rectangle   b) parallelogram

c) square   d) isosceles trapezium

e) None of these

6. Find the area of a triangle whose base is 10 cm and height is 4 cm.

a) 40 cm²   b) 10 cm²

c) 20 cm²   d) 30 cm²

e) None of these

7. A dealer bought a watch for Rs. 550. What should be the selling price of watch if he wants to earn a profit of 6%

a) Rs. 580   b) Rs. 583

c) Rs. 600   d) Rs. 620

e) None of these

8. If $x - y = 12$ and $xy = 14$, then the value of $x^2 + y^2$ is:

a) 172   b) 182

c) 162   d) 152

e) None of these

9. A quadrilateral whose one pair of opposite sides is parallel is called:

a) A square   b) A rectangle

c) A trapezium   d) A triangle

e) None of these

10. The consecutive sides of a quadrilateral have:

a) no common point   b) one common point

c) two common points   d) infinitely common points

e) None of these

11. 1,000 persons from a certain villiage attend a public meeting. With the help of the given pie-chart, find the total number of persons who walk to public meeting
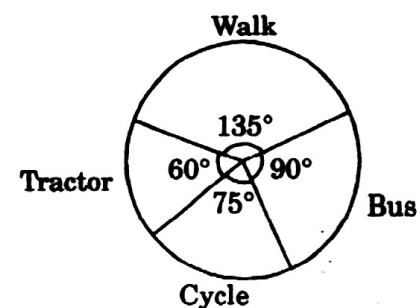
a) 375   b) 285

c) 390   d) 385

e) None of these

12. **3 kg spinach costs Rs. 15 and 5 kg tomato costs Rs. 20. How much do 8 kg spinach and 8 kg tomato cost?**

a) Rs. 64   b) Rs. 72

c) Rs. 58   d) None of these

13. **The given circle is divided into 8 equals parts**
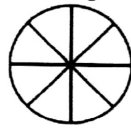
What is the value of shaded region ?
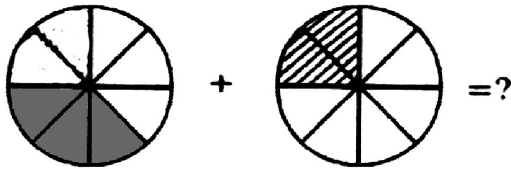
a) $\dfrac{1}{3}$ b) $\dfrac{3}{8}$ c) $\dfrac{2}{3}$
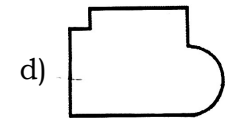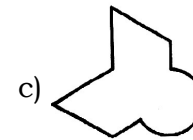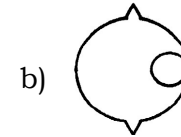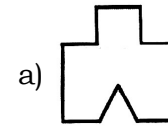
d) $\dfrac{5}{8}$ e) None of these

14. **If '+' means 'x', '—' means '+', 'x' means '÷' and '÷' means '—', then answer the following question based on this information.**

$$6 + 7 \times 3 - 8 \div 20 = ?$$
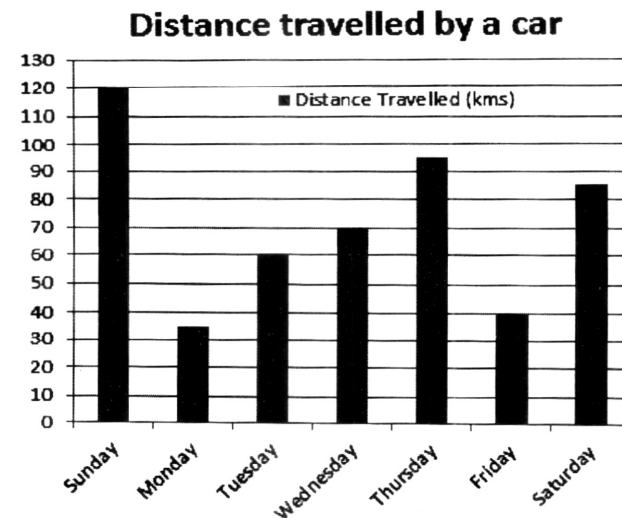
a) —3   b) 2   c) 1

d) 7   e) None of these

15. **Which of the following shapes do not have a line of symmetry?**

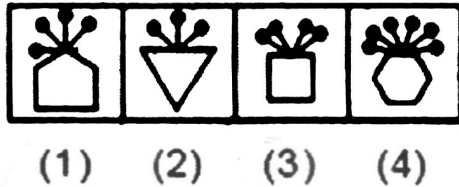a)   b)

c)   d)

e) None of these

16. **The following bar graph show the distance travelled (in kms) by a car on each day of the week. What is the total distance travelled by the car in whole week?**

a) 505 kms

b) 510 kms

c) 520 kms

d) None of these

17. Choose the figure which is different from the rest:

(1)   (2)   (3)   (4)

a) 1   b) 2   c) 4

d) 4   e) None of these

18. 47 can be written by using three numbers with two operations x, + is:

a) 4, 10, 7   b) 40, 4, 7   c) 3, 10, 49

d) 4, 2, 40   e) None of these.

19. A contest began at midnight one day and ended 500 minutes later. At what time did the contest end?

a) Noon   b) 8:20 am   c) 8:20 pm

d) 10:00 am   e) None of these.

20. If x and y are two numbers such that their sum is 100 and differences is 40, then x and y are:

a) 80, 20   b) 60, 40   c) 70, 30

d) 50, 50   e) None of these.

(7)

21. The number of zeros in the end of a perfect square can never be:

a) even   b) odd   c) negative

d) positive   e) None of these.

22. **Shaded portion represents**

a) 50%   b) 30%

c) 75%   d) 100%

e) None of these

23. A litre of kerosene oil weighs 0.819 kg and 10 litres of petrol weigh 7.02 kg, then the ratio of the weight of kerosene oil and petrol per litre is

a) 7:5   b) 5:7

c) 6:7   d) 7:6   e) None of these

24. Square root of 9, 13, 936 is:

a) 965   b) 958   c) 659

d) 956   e) None of these.

25. Ratio is a method of comparing two quantities by

a) Addition   b) Subtraction

c) Division   d) Multiplication

e) None of these

(8)

SCIENCE

26. **In which layer of atmosphere do we live?**

    a) Troposhere   b) Mesosphere

    c) Stratoshere   d) Thermoshere

    e) None of these

27. **The hottest and the heaviest central portion of the earth is :**

    a) crust   b) mantle

    c) outer core   d) inner core

    e) none of these

28. **The ability of a metal to be drawn into wire is a measure of its:**

    a) malleability   b) ductility

    c) strength   d) conductivity

    e) none of these

29. **Name one metal which is malleable as well as ductile:**

    a) Mercury   b) Sodium

    c) Potassium   d) Gold

    e) None of these

30. **Sodium metal is stored in :**

    a) water   b) alcohol

    c) kerosene   d) acetone

    e) none of these

31. **Which one among the following cell organelle is capable of generating ATP by oxidising carbohydrates and fats?**

    a) Mitochondria   b) Vacuole

    c) Plastid   d) Centrosome

    e) None of these

32. **Identify the organism among the following which is neither eukaryote nor prokaryote :**

    a) Nostoc   b) Yeast

    c) Euglena   d) All of these

    e) None of these

33. **Nitrogen fixing bacteria comes under which of the following groups?**

    a) Comma   b) Spiral

    c) Coccus   d) Bacillus

    e) None of these

34. **Why irrigation is required time to time?**

    a) That increases the crop yield

    b) Water is lost from the soil by evaporation

    c) Water is lost by soil seepage

    d) All of these   e) None of these

35. **How can a body be charged positively?**

    a) By adding electrons

    b) By removing electrons

(9)

(10)

c) By connecting with a cell

d) All of these   e) None of these

36. How a cell is able to supply current?

a) It converts chemical energy into electrical energy

b) It converts mechanical energy into chemical energy

c) It converts electrical energy into chemical energy

d) It converts electrical energy into mechanical energy

e) None of these

37. Identify the incorrect statement among the following :

a) Methane is the simplest hydrocarbon

b) In a crystalline form of carbon, the carbon atoms are arranged in a definite pattern

c) Coke is used in the extraction of iron from haematite ore

d) Destructive distillation is carried out in the presence of air

e) None of these

38. The rearing of honeybees is called:

a) Agriculture   b) Apiculture

c) Pisciculture   d) Sericulture

e) None of these

39. The main genetic material found in most bacteria is:

a) linear double stranded DNA

b) circular double stranded DNA

c) linear single stranded RNA

d) circular single stranded RNA

e) None of these

40. Which among the following planets have no satellite?

a) Venus and Neptune   b) Saturn and Mercury

c) Venus and Mars   d) Mercury and Venus

e) None of these

41. Find the odd man out?

a) potassium   b) magnesium

c) iron   d) carbon

e) None of these

42. Vitamin...............is fond in egg yolk.

a) A   b) D

c) K   d) B12

e) None of these

43. Which of the following tissues help in movement?

a) cartilage   b) tendons

c) ligaments   d) All of these

e) None of these

44. Which of the following increase the temporary hardness of water?

a) calcium hydrogencarbonate

b) magnesium hydrogencarbonate

c) calcium   d) Both A and B

e) None of these

45. Onion is an example of ……………stem

a) Bulb   b) Corm

c) Tuber   d) Rhizome

e) None of these

46. Write a paragraph on any one of the following

Changes in the ocean due to the global warming

OR

Internet influence on students

(Write it in your OMR Answer Sheet)