

TAKSHILA[®]

NEET | IIT-JEE | FOUNDATION

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Test Code: VII-A

TNTSE

Takshila's National Talent Scholarship Examination

For Students of Class VII

This booklet contains 4 Pages

SCIENCE : 20 QUESTIONS

MATHEMATICS : 20 QUESTIONS

REASONING : 10 QUESTIONS

General Instructions:

Please do not write anything on question paper.

1. The candidates will use their own ball point pens, HB pencils, erasers etc.
2. Candidates will find out the right answer of the question and will darken the appropriate circle completely with Blue or Black Pen Only.
3. Total No. of Question = 50
4. All questions carry equal marks. Science, Mathematics & Reasoning are compulsory.
5. For each correct Answer = 4 marks, there is no negative marking.
6. Please bring separate sheet for Rough work.
7. Total Time : 1 Hour
8. Maximum Marks : 200

SCIENCE

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| <p>Q.1 Name the gas which is used by white blood cells to kill the invading bacteria.
 (a) Oxygen (b) Carbon dioxide
 (c) Nitrogen (d) Chlorine</p> <p>Q.2 What is the percentage of oxygen in the inhaled air?
 (a) 21% (b) 16.4%
 (c) 18% (d) 20%</p> <p>Q.3 What is the percentage of CO₂ in the exhaled air?
 (a) 23% (b) 4.4%
 (c) 6% (d) 0.04%</p> <p>Q.4 Normal range of breathing rate per minute in an adult person at rest is
 (a) 10 - 12 (b) 15 - 18
 (c) 21 - 24 (d) 30 - 33</p> <p>Q.5 Muscle cramps occurs due to accumulation of
 (a) Lactic acid (b) Acetic acid
 (c) Alcohol (d) Malic acid</p> <p>Q.6 Handles of cooking utensils should be made of material that
 (a) conducts heat well
 (b) does not conduct heat
 (c) radiate heat well
 (d) does not radiate heat</p> <p>Q.7 Sea breeze and land breeze
 (a) are caused by currents set up in air due to conduction
 (b) are caused by currents set up in air due to convection
 (c) are caused by currents set up in air due to radiation
 (d) have no relation to conduction, convection and radiation</p> <p>Q.8 Which of the following is the best heat insulator
 (a) air (b) steel
 (c) copper (d) iron</p> <p>Q.9 Heat from the sun reaches us by the process of
 (a) conduction (b) convection
 (c) radiation (d) all the above</p> | <p>Q.10 In liquids heat is transferred
 (a) only by convection
 (b) only by radiation
 (c) mainly by conduction and convection
 (d) none of these</p> <p>Q.11 Formic acid is found in
 (a) Curd (b) Spinach
 (c) Ant's sting (d) Ascorbic acid</p> <p>Q.12 Citric acid is found in
 (a) Curd (b) Citrus fruits
 (c) Ascorbic acid (d) Lime water</p> <p>Q.13 Lactic acid is found in
 (a) Curd (b) Citrus fruits
 (c) Gooseberry (d) Lime</p> <p>Q.14 Oxalic acid is found in
 (a) Spinach (b) Curd
 (c) Oranges (d) Mangoes</p> <p>Q.15 Ascorbic acid is found in
 (a) Tamarind
 (b) Curd
 (c) Oranges & lemon
 (d) Unripe mangoes</p> <p>Q.16 Tartaric acid is found in
 (a) Grapes (b) Banana
 (c) Mangoes (d) All of the above</p> <p>Q.17 Name the element with atomic no.11
 (a) Sodium (b) Carbon
 (c) Neon (d) Nitrogen</p> <p>Q.18 Calcium hydroxide is found in
 (a) Calcium carbonate
 (b) Calcium chloride
 (c) Calcium
 (d) Lime water</p> <p>Q.19 Ammonium hydroxide is found
 (a) Window cleaner (b) Limewater
 (c) Soap (d) Milk of magnesia</p> <p>Q.20 Sodium hydroxide is found in
 (a) Soap (b) Window cleaner
 (c) Calcium hydroxide (d) Sodium</p> |
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MATHEMATICS

Q.21 Identify the property used in the following:

$$2 \times 13 + 8 \times 13 = (2 + 8) \times 13$$

- (a) Commutative (b) Closure
(c) Associate (d) Distributive

Q.22 Which number is multiplicative identity for the whole numbers

- (a) 0 (b) 1
(c) 2 (d) 3

Q.23 What will be multiplicative inverse of -8

- (a) 8 (b) $\frac{1}{8}$
(c) $-\frac{1}{8}$ (d) 0

Q.24 Which property is reflected in the following:

$$7 \times 5 = 5 \times 7$$

- (a) Closure (b) Commutative
(c) Associative (d) Distributive

Q.25 What is the value of $\frac{2}{3} + \frac{1}{3} + \frac{7}{3}$

- (a) $\frac{10}{3}$ (b) $\frac{10}{9}$
(c) $\frac{30}{3}$ (d) $\frac{10}{27}$

Q.26 The product of $\frac{2}{5} \times 5\frac{1}{4}$

- (a) $\frac{1}{2}$ (b) $\frac{21}{10}$
(c) $\frac{11}{10}$ (d) $\frac{15}{10}$

Q.27 The reciprocal of $1\frac{2}{3}$ is

- (a) $\frac{3}{2}$ (b) $1\frac{3}{2}$
(c) $\frac{5}{3}$ (d) $\frac{3}{5}$

Q.28 The value of $0.78 \div 100$ is

- (a) 7800 (b) 0.0078
(c) 0.78 (d) 7.8

Q.29 The value of $26.3 \div 1000$ is

- (a) 0.0263 (b) 0.2630
(c) 26300 (d) 26.300

Q.30 The mode of the data 2, 2, 2, 3, 3, 4, 5, 5, 5, 6, 6, 8 is

- _____.
(a) 2 (b) 5
(c) 8 (d) 2 & 5 both

Q.31 0.01×0.01

- (a) 0.0001 (b) 0.001
(c) 1 (d) 0.1

Q.32 Median of the data

13, 16, 12, 14, 19, 12, 14, 13, 14 is ____.

- (a) 14 (b) 19
(c) 12 (d) 13

Q.33 Which figure encloses more area : a square of side 2 cm; a rectangle of side 3 cm & 2 cm; An equilateral triangle of side 4 cm

- (a) Rectangle
(b) Square
(c) Triangle
(d) Same of rectangle & square

Q.34 The area of rectangle whose length is 15 cm & breadth is 6 m

- (a) 9000 cm^2 (b) 90 cm^2
(c) 9 cm^2 (d) 900 cm^2

Q.35 In the figure $\triangle ABC$ is isosceles $AE = 6 \text{ cm}$, $BC = 9 \text{ cm}$, the area $\triangle ABC$ is

- (a) 27 cm^2 (b) 54 cm^2
(c) 22.5 cm^2 (d) 45 cm^2

Q.36 The area of parallelogram is

- (a) Base + height (b) Base \times height
(c) Base \times base (d) Height \times height

Q.37 The base in the area of parallelogram is

- (a) $\frac{\text{area}}{\text{height}}$ (b) $\frac{\text{height}}{\text{area}}$
(c) area \times height (d) Area

Q.38 The area of parallelogram whose base 6 cm & altitude 7 cm is

- (a) 18 cm^2 (b) 20 cm^2
(c) 9 cm^2 (d) 42 cm^2

Q.39 The height of parallelogram whose area is 35 cm^2 and altitude 7 cm

- (a) 5 cm (b) 5 cm^2
(c) 245 cm (d) 245 cm^2

Q.40 One hectare is equal to

- (a) 100 m^2 (b) 1000 m^2
(c) $10,000 \text{ m}^2$ (d) $1,00,000 \text{ m}^2$

REASONING

Q.41 Mohan travels 7 km Eastwards, then he turns right and travels 3 km and further turns right again and travels 11 km. How far is he from the starting point?

- (a) 5 (b) 14
(c) 21 (d) 23

Q.42 A man walks 9 km due East and then 12 km due South. How far is he from the starting point?

- (a) 15 km (b) 6 km
(c) 7 km (d) None of these

Q.43 How many 5's are there in the following sequence which are immediately followed by 3 but not immediately preceded by 7?

8953253855687335775365335738

- (a) One (b) Two
(c) Three (d) Four

Q.44 In the following number series how many 8's are there which are exactly divisible by the numbers which are preceded and followed by it?

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

Q.45 What is the value of $(48 - 12) \div 4 + 6 \div 2 \times 3 = ?$

- (a) 10 (b) 0.6
(c) 2 (d) 18

Q.46 3, 6, 18, 72, 360, ?

- (a) 720 (b) 1080
(c) 1600 (d) 2160

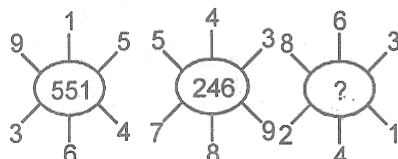
Q.47 6, 12, 7, 11, 8, 10, 9, ?

- (a) 8 (b) 9
(c) 11 (d) 10

Q.48 0, 5, 22, 57, 116, ?

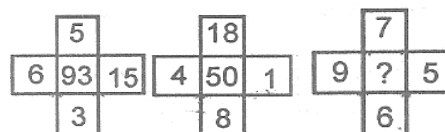
- (a) 205 (b) 216
(c) 192 (d) 207

Q.49



(a) 262 (b) 622
(c) 631 (d) 337

Q.50



(a) 5 (b) 19
(c) 27 (d) 89