



G T S E

GOAL TALENT SEARCH EXAM

FIRST STEP TOWARDS COMPETITION

2026-27

CLASS : VIII- SAMPLE PAPER

- This paper has 30 questions. All questions are compulsory.
- The maximum marks for each question is 4.
- 1 mark will be deducted against each negative response from the total marks.
- Use of calculator, slide rule, graph paper & trigonometric tables is NOT PERMITTED.

[Time : 40 Minutes]

[Full Marks : 120]

Name of the Candidate : _____

Class : _____

Roll No. : _____

Exam Centre : _____

CLASS VIII SYLLABUS

Subject		Pre.	Mains
Physics	:	05	20
Chemistry	:	05	20
Biology	:	05	20
Maths	:	10	20
I.Q. Based	:	05	20
Total Questions	:	30	100
Total Time	:	40 Min.	2 Hrs.

Physics

Exploring the investigative world of science, Electricity – Magnetic & heating effects, Exploring force, Pressure, Wind, Storms & Cyclones, Light – Mirror & Lenses. Keeping time with the skies, Our Home : Earth, a unique life sustaining planet, Electricity : Circuits and their components, Heat transfer in nature, measurement of time & motion.

Chemistry

Particulate Nature of Matter, Nature of Matter, Elements compounds & Mixtures, The amazing world of Solutes, Solvents and Solutions, Exploring substances – Acids, Basic and Neutral, the world of metal & non metal, changes around us – Physical and chemical.

Biology

The invisible living world : Beyond our naked eye, Health: The ultimate Treasure, How nature works in harmony, Adolescence – A stage of growth and change, Life processes in animals and plants.

Math

A Square & A Cube, Power Play, A story of numbers, Quadrilaterals, Number play, Proportional reasoning, Simple equations, Lines & angles, Algebraic expression, Rational Number. Arithmetic expression, working with fractions, Finding the unknown, Another peek beyond the point area.

SCIENCE

01. Which of the following is a contact force?
(1) Gravitational force
(2) Magnetic force
(3) Frictional force
(4) Electrostatic force
02. A push or a pull on an object is called:
(1) Pressure (2) Work
(3) Force (4) Energy
03. Pressure is defined as:
(1) Force $\times$ Area
(2) Force $\div$ Area
(3) Area $\div$ Force
(4) Mass $\times$ Acceleration
04. Which law is correct according to reflection?
(1) Angle of incidence = Angle of reflection
(2) Angle of incidence = 0° always
(3) Angle of incidence = 90° always
(4) No fixed relation
05. When electric current passes through a wire it behaves like -
(1) Magnet (2) Motor
(3) Electron (4) Battery
06. Choose the correct name of acid which is found in 'Ant's sting'.
(1) Oxalic acid
(2) Formic acid
(3) Tartaric acid
(4) Calcium hydroxide
07. Mixture of gas & gas is a type of mixture -
(1) Uniform
(2) Non-uniform
(3) Both (1) & (2)
(4) None of these
08. Particles are tightly packed in -
(1) Solid
(2) Liquid
(3) Gas
(4) Both (2) & (3)
09. Which of the following do not have fixed shape and take the shape of the container they are kept in ?
(1) Wooden block
(2) Water
(3) Iron
(4) Ice
10. Mixture of water and sugar is called
(1) Solute
(2) Solvent
(3) Solution
(4) None of these
11. Who discovered the cell?
(1) Robert Hooke
(2) Leeuwenhoek
(3) Schleiden
(4) Schwann
12. Which of the following is/are non-communicable disease -
(1) Typhoid
(2) Tuberculosis
(3) Cancer
(4) Common cold

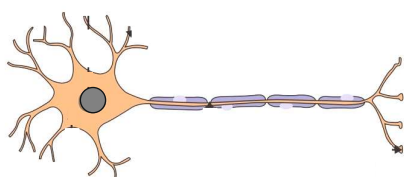
13. Which of the following is an asexual method of reproduction?

- (1) Pollination
- (2) Budding
- (3) Fertilization
- (4) Seed formation

14. Viruses multiply when they -

- (1) enter in a living cell
- (2) exit from living cell
- (3) enter in a dead cell
- (4) All of the above

15. Choose the name of the following structure -



- (1) Red blood cell
- (2) Muscle cell
- (3) Nerve cell
- (4) Tissue

MATHS

16. Which smallest number should be multiplied by 20 to make it a perfect square?

- (1) 2 (2) 3 (3) 5 (4) 10

17. If a number is multiplied by itself once, it becomes its:

- (1) Square (2) Cube
- (3) Square root (4) Cube root

18. Simplify : $2^2 \times 2^3 \times 2^4 = ?$

- (1) 2^{24} (2) 2^9
- (3) 2^{-5} (4) 2^{-9}

19. The product of two negative rational numbers is:

- (1) Negative
- (2) Positive
- (3) Zero
- (4) None of these

20. If $x = 2$, the value of $3x + 5$ is:

- (1) 7 (2) 8
- (3) 11 (4) 12

21. If $x^2 = 100$, then x is:

- (1) 100 (2) ± 10
- (3) 50 (4) ± 100

22. Which of these is NOT a perfect cube?

- (1) 8 (2) 27
- (3) 54 (4) 125

23. If we multiply $4x$ by 5, the product is :

- (1) 20 (2) $9x$
- (3) $20x$ (4) $4x + 5$

24. Which of these ratios are equivalent to 3:5?

- (1) 6:10 (2) 9:12
- (3) 12:16 (4) 15:18

25. Which of these quadrilaterals has all sides equal and diagonals perpendicular?

- (1) Rectangle
- (2) Rhombus
- (3) Parallelogram
- (4) Trapezium

I.Q BASED

26. Some letters are coded as follows :

Y	C	L	S	I	O	U	M	D	T	P	H	E
$\times$	$\div$	*	Δ	-	\$	$\neq$	+	α	β	γ	#	•

The word which is coded as \$ * $\times$ + γ $\neq$ Δ is ____.

- (1) OLYMPIAD
(2) OLYNTHUS
(3) OLYMPICS
(4) OLYMPUS
27. Temperature is related to 'Degree' in the same way as 'Time' is related to '_____'.
(1) Metre
(2) Litre
(3) Second
(4) Newton

28. Which number will be replace question mark (?) in the following series ?

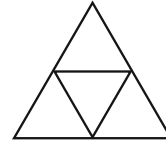
6, 7, 11, 20, ?

- (1) 29 (2) 32 (3) 35 (4) 36

29. If A stands for '+', B stands for '-', C stands for ' $\times$ ' and D stands for ' $\div$ ' then 5C5D5A5B5 = ?

- (1) 0 (2) 5 (3) 10 (4) 15

30. Find the number of triangles in the given figure.



- (1) 4 (2) 5 (3) 6 (4) 7

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