Gandhi Educational Trust





SCIENCEBEAM TALENT SEARCH EXAM



Date of Exam : 27 - Oct - 2024 (Sunday)

General Instructions :

- 1. Be present at the exam center at least 30 mins before the exam time.
- 2. Use of the calculator or any other electronic device in the examination hall is strictly prohibited.
- 3. Use a HB pencil or Blue/ Black Ball pen only to mark your choice of answer in the OMR sheet by darkening a circle as shown below



- 4. Rough work should be done only on the sheet space provided in the booklet.
- 5. The exam pattern is of MULTIPLE CHOICE QUESTIONS and all of them are objective type.
- 6. The candidate can take the question booklet home after the exam.

Grade	Duration	Exam Pattern			
		Subject	N	o. of Questions * Marks	Marks Allotted
Grade XI, Grade XII, Grade XII Passed		Physics	20	Single Choice : 15 * 2 Multiple Choice : 5 * 4	50
Grade XII Passed (Medical)	2 Hrs (10:00 am to 12:00 Noon)	Chemistry	20	Single Choice : 15 * 2 Multiple Choice : 5 * 4	50
		Biology	20	Single Choice : 15 * 2 Multiple Choice : 5 * 4	50
		Total Questions	60	Total Marks	150
		Subject	No. of Questions * Marks		Marks Allotted
Grade XI, Grade XII,		Physics	15	Single Choice : 10 * 2 Multiple Choice : 5 * 4	40
Grade XII Passed (Engineering)		Chemistry	15	Single Choice : 10 * 2 Multiple Choice : 5 * 4	40
		Mathematics	20	Single Choice : 15 * 2 Multiple Choice : 5 * 4	50
		Total Questions	50	Total Marks	130

GRADE XI, XII & XII Passed

Single Choice : This section contains 15 MCQs. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE is correct.** Each question carries "2" Marks. Each <u>incorrect answer gets "-1" negative marking.</u>

Multiple Choice : This section contains 5 Questions. Each question has 4 choices (A), (B), (C) and (D) and MORE THAN ONE options (Either two options or three options or all options) are correct. Each question carries "4" Marks that are divided equally among the options.

Correct Answer	Answer marked by student	Marks allotted
A & C	A & C	4
	A or C	2
	B or D	-1
	B & D	-2
	A&B / A&D / C&B / C&D	-1

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Grade XI (Medical)			
Physics	Chemistry	Biology	
Units & Measurements	 Some basic concepts of 	Cell : The unit of life	
 Motion in a straight 	Chemistry	 Cell cycle and cell division 	
line	 Structure of Atom 	 The living world 	
 Motion in a plane 	 Classification of Elements 	 Biological classification 	
 Laws of Motion 	and periodicity in	 Morphology of flowering plants 	
 Work, Energy and 	properties	 Structural organization in animals 	
Power	 Chemical bonding and 	 Biomolecules 	
System of Particles and	molecular structure	 Breathing and exchange of gases 	
Rotational Motion	 Thermodynamics 	 Body fluids and circulation 	
		 Excretory products and their 	
		elimination	
		 Locomotion and movement 	

Grade XI (Engineering)			
Physics	Chemistry	Mathematics	
 Physical World 	Some basic concepts of	 Sets 	
 Units and Measurements 	Chemistry	 Trigonometric Functions 	
 Motion in a straight line 	Structure of Atom	 Complex numbers and 	
 Motion in a plane 	Classification of Elements	quadratic equations	
 Laws of Motion 	and periodicity in properties	 Linear inequalities 	
 Work, energy and power 	 Chemical bonding and 	 Permutations and 	
 System of Particles and 	molecular structure	Combinations	
Rotational Motion	 Thermodynamics 	 Sequences and Series 	





Grade XII & Grade XII Passed (Medical)			
Physics Chemistry		Biology	
 Electrostatics 	Physical Chemistry	 Reproduction 	
 Current Electricity 	 Solutions 	 Genetics and Evolution 	
 Magnetic Effects of 	 Electrochemistry 	 Biology and Human 	
Current and	 Chemical Kinetics 	Welfare	
Magnetism	Inorganic Chemistry	 Biotechnology and its 	
 Electromagnetic 	 d-Block and f- Block Elements 	Applications	
Induction and	 Coordination Compounds 	 Ecology and 	
Alternating Currents	Organic Chemistry	Environment	
 Electromagnetic 	 Biomolecules 		
Waves	 Haloalkanes and Haloarenes 		
 Optics 	 Alcohols, Phenols and Ethers 		
 Dual Nature of Matter 	 Aldehydes, Ketones and Carboxylic 		
and Radiation	Acids		
 Atoms and Nuclei 	 Amines 		
 Electronic Devices 			

	Grade XII & Grade XII Passed (Engineering)			
Physics		Chemistry	Mathematics	
•	Electrostatics	Physical Chemistry		
-	Current Electricity	 Solutions 	 Relations, and 	
-	Magnetic Effects of	 Electrochemistry 	Functions	
	Current and Magnetism	 Chemical Kinetics 	 Algebra 	
-	Electromagnetic	Inorganic Chemistry	 Calculus 	
	Induction and	 d-Block and f- Block Elements 	 Vectors and Three 	
	Alternating Currents	 Coordination Compounds 	dimensional Geometry	
-	Electromagnetic Waves	Organic Chemistry	 Linear Programming 	
-	Optics	 Biomolecules 	 Probability 	
	Dual Nature of Matter	 Haloalkanes and Haloarenes 		
	and Radiation	 Alcohols, Phenols and Ethers 		
-	Atoms and Nuclei	 Aldehydes, Ketones and Carboxylic 		
-	Electronic Devices	Acids		
		 Amines 		