



## Diagnostic cum Scholarship Tests

### SAMPLE PAPER

#### For Students of Class VIII

### Paper 2 - NTSE Science & Mathematics

Duration : 60 minutes

Paper Code: 78-2

Maximum Marks : 60

Please read the instructions and guidelines carefully :

**Important Note :** Please ensure to accurately input the details for the Question Paper Code as indicated at the top of this sheet (Side 2) into the corresponding columns / fields on the OMR sheet before proceeding with the paper. Incorrectly filled information regarding the class or paper may result in inaccurate outcomes or results.

*"This paper has been scientifically designed to evaluate your potential – manifested and hidden for the target examinations mentioned in various sections of the paper. Thus, your adherence to the instructions is critical in the evaluation of the same"*

1. This Question paper consists of 2 sections.
2. Student should devote allotted time for each section. If a section is easy, then it is easy for everyone & was meant to be like that with a goal in mind. Do not switch over to another section if you find the section to be easy. If a section is tough, then it is tough for everyone. Please note that each section has been allocated a time limit of 40 minutes. Dedicating the full 40 minutes to finish each section successfully is essential. Opening the next section before completing the allotted time for the preceding section is not permitted. This adherence is crucial for assessing your true potential, as each section is meticulously crafted to evaluate your potential for the corresponding competitive examinations.
3. Candidate should open the seal of Section-II only after completing 40 minutes of Section-I.
4. Sheets will be given to each candidate for rough work. Candidate must fill all details on the rough sheet and submit the same to invigilator along with OMR sheet. Candidate must mention the Question No. while doing the rough work in the sheet.
5. Please note candidates are not allowed to bring any prohibited items into the exam hall such as electronic devices, mobile phones, smart watch, earphones, calculators, books, notes, formula sheets, and bags.
6. Marking scheme is given in table below:

Section	Subject	Question no.	Marking Scheme for each question	
			Correct answer	Wrong answer
SECTION – I (NTSE-Science) Time Allotted: 40 Minutes	PHYSICS (Part-A)	1 to 10	+1	0
	CHEMISTRY (Part-B)	11 to 20	+1	0
	BIOLOGY (Part-C)	21 to 30	+1	0
SECTION – II (NTSE-Mathematics) Time Allotted: 40 Minutes	MATHEMATICS (Part-A)	31 to 60	+1	0

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web this theorem showed that the area of a pythagorean triangle having integral sides cannot be a square integer this theorem leads to the proof of fermat s last theorem for the case  $n = 4$  that is  $x^4 + y^4 = z^4$  has no solutions fermat claimed to be able to prove the conjecture for  $n = 3$  but published no proof

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web jun 23 2022 according to fermat s last theorem no three positive integers  $a$ ,  $b$ ,  $c$  satisfy the equation for any integer value of  $n$  greater than 2 for  $n = 1$  and  $n = 2$  the equation have infinitely many solutions some solutions for  $n = 1$  are 2 3 5 7 13 20 5

6 11 10 9 19 some solutions for  $n \geq 2$  are c java

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