

SAMPLE PAPER

for Students presently in Class VII

Paper 1 - IQ

Duration : 60 minutes

Maximum Marks : 90

Please read the instructions and guidelines carefully :

Important Note : Please ensure to accurately input the details for the Class and Paper No. as indicated at the top of this sheet 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 30 minutes. Dedicating the full 30 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 30 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) Time Allotted: 30 Minutes	IQ	1 to 6	+ 3	0
		7 to 15	+ 3	0
SECTION – II (NSEJS) Time Allotted: 30 Minutes	IQ	16 to 21	+ 3	0
		22 to 30	+ 3	0

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web the minimum number of teeth required on pinion in order to avoid the interference were computed using following relation $z_2 \geq \frac{2}{\sin^2 \phi}$ eq 1 substituting values in above equation minimum number of teeth on pinion are 18 standard gear ratio for rack and pinion 1 5 therefore no of teeth on rack 18 1 5 27 3 3 selection of

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web aug 10 2022 figure 1 a simplified rack and pinion steering system rack and pinion steering is a simple system that directly converts the rotation of the steering wheel to straight line movement at the wheels the steering gear consists of the rack pinion and related housings and support bearings turning the steering wheel causes the pinion to rotate

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