

Savitribai Phule Pune University
Department of Technology
Syllabus for Online Entrance Examination (OEE)
for MTech in Data Science 2026

SECTION A: Numerical Analysis Aptitude & English Skills Assessment – 20 Marks

- Pattern Recognition
- Visual Sequences & Series
- Simple Mathematics
- Odd Image / Element Out
- Visual Memory and Details
- General English
- English Grammar

Section B- Questions (MCQs) based on GATE 2026 Data Science & Artificial Intelligence Syllabi-80 Marks

Typical Multiple-Choice Question Example –

Question:

Let \mathbb{N} denote the set of natural numbers.

Define a relation $R \subseteq \mathbb{N} \times \mathbb{N}$ by

$$R = \{(n, m) \in \mathbb{N} \times \mathbb{N} \mid n \mid m\}$$

where $n \mid m$ means “ n divides m ”.

Determine which of the following properties the relation R satisfies:

- A. Reflexive and symmetric
- B. Transitive and symmetric
- C. Equivalence relation
- D. Reflexive and transitive but not symmetric

Correct Choice of Answer – D