



# Office of Outreach Activities Indian Institute of Technology Kanpur

## Syllabus for Online Entrance Test

### Verbal Aptitude

Basic English grammar: tenses, articles, subject-verb agreement, adjectives, prepositions, conjunctions, and other parts of speech.

Basic vocabulary, idioms and phrases, reading comprehension, and narrative sequencing.

### Quantitative Aptitude

Data interpretation, data graphs (bar graphs, pie charts, two- and three-dimensional plots, and other graphs representing data), maps, and tables.

Ratio and proportion, percentages, exponents and powers, logarithms, permutations and combinations, mensuration, geometry, algebra, elementary statistics and probability.

### Analytical Aptitude

Logic, deduction and induction, analogy, numerical relations, and reasoning.

### Spatial Aptitude

Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping. Paper folding, cutting, and patterns in two and three dimensions.

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