

## MAT 2001 Relevance Checker

- **Red:** Question not relevant for current syllabus.
- **Orange:** Question not entirely relevant for current syllabus but worth attempting. See comments.
- **Black:** Question relevant for current syllabus.

### 1. Multiple Choice

#### (A). Transformed Cubic

This question is relevant for the current syllabus.

#### (B). Coloured Cube

This question is relevant for the current syllabus.

#### (C). Shortest Distance from Origin to Line

This question is relevant for the current syllabus.

#### (D). Three Solutions of Cubic

This question is relevant for the current syllabus.

#### (E). Maximum Gradient of Quartic

This question is relevant for the current syllabus.

#### (F). Factorisation of Two-Variable Cubic

This question is relevant for the current syllabus.

#### (G). Messy Derivative

This question uses the chain rule, product rule and trigonometric differentiation, all of which are not relevant for the current syllabus.

#### (H). Infinite Series

This question is relevant for the current syllabus.

#### (I). Squares and Grid Lines

This question is relevant for the current syllabus.

#### (J). Pack of Cards

This question is relevant for the current syllabus.

### 2. Roots of Polynomials

The entirety of this question is relevant for the current syllabus.

### 3. Quadratic and Quartic

The entirety of this question is relevant for the current syllabus.

## **4. Lines and Triangles**

The entirety of this question is relevant for the current syllabus.

## **5. Ants and Rods**

The entirety of this question is relevant for the current syllabus.