MAT 2006 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.

(A). Largest Value

This question is relevant for the current syllabus.

(B). Number of Solutions

This question is relevant for the current syllabus.

(C). Functional Equations

This question is relevant for the current syllabus

(D). Derivative of Function

This question requires the chain rule and the derivative of $\ln(x)$, and so couldn't be asked according to the current syllabus.

(E). Cubic and Factor Theorem

This question is relevant for the current syllabus.

(F). Fractonal Quadratic Inequality

This question is relevant for the current syllabus.

(G). Areas of Equilateral Triangles

This question is relevant for the current syllabus.

(H). Trigonometric Equation

This question is relevant for the current syllabus, although a current paper would use degrees rather than radians.

(I). Equations with Modulus

In a modern question, they would have to give you the definition of the modulus function: $|x| = x$ if $x \geq 0$ and $-x$ otherwise.

(J). Intersecting Circles

This question is relevant for the current syllabus.

2. Two Variable Quadratic

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

3. Cubic and its Integrals

If this question were asked on a modern paper, they would have to give you the definition of the modulus function in (iv), the very last part. Otherwise, it is entirely relevant.

4. Circles, Tangents and Parabolas

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

5. Four-Grids

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

6. Gold, Silver and Lead

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

7. Building Words

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