
Selective test subjects

- 1. Technical and scientific area (mathematics, physics). The test will be in written form. General knowledge at an intuitive and logical level of reasoning within the following fields**
 - Euclidean geometry (two and three dimensional). In particular the Pythagorean and the Thales theorems and their applications; the computation of areas and volumes.
 - Trigonometry in the right triangle: definition of the trigonometry ratios (sine, cosine, tangent) of an acute angle and their applications to geometrical situations with right triangles.
 - Basic Analytic Geometry in the plane: points, lines, circumferences, parabolas.
 - Geometric vectors: definition, properties, sums, linear combinations with applications in elementary physics (forces, lever,...).
 - Topics in pre-calculus: direct and inverse proportionality, secondary school algebra, real numbers, first and second degree equations.
 - Basic real functions: linear, rational, second degree, power functions and their inverse functions.
- 2. Historical-Humanistic area (History of arts and architecture, drawing). The test will be in written form**
 - General knowledge of History of arts and architecture (most representative buildings and artists), characteristics of the main architectural styles and artistic currents.
 - General knowledge of the essential principles of technical drawing and visual representation
- 3. Foreign language. The test will be in written form**
 - There will be an English language test, or eventually in another foreign language (such as German, French or Spanish). This test cannot be carried out in the mother tongue
- 4. Motivational test**
 - The test includes a part of general questions. The test can be either in written or oral form. No special preparation needed.

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