

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
- b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
- c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
- b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
- c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
- b. Express $\sqrt{3} + i$ in polar form.
- c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
- b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
- c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Mathematics Final Exam Scope Grade Paper 1

Chao Zhang



Mathematics Final Exam Scope Grade Paper 1:

Resources in Education ,1999-04 **Science Scope** ,2003 Conference Proceedings. The Future of Education
Pixel,2015-07-01 **The City Record** New York (N.Y.),1903 **Federal Register** ,1940 **Cognitive Neuroscience**
Editor's Pick 2021 Lutz Jäncke,2021-08-10 **Manual of Examinations for the ...** ,1899 **Marking Matric** Vijay
Reddy,2006 The past ten years in South Africa has seen many changes in education the creation of a single department of
education common examinations for all learners in public schools in the country a new outcomes based education curriculum
which was introduced to learners in the general education and training phase since 1998 and will be introduced to the
further education and training phase from 2006 To evaluate the success of these changes South African researchers still use
the indicator of student achievement The matriculation examination is the visible high profile and public performance
indicator Every year parents learners teachers researchers government officials policymakers and the general public get
involved in the debate around the matric examination with the most frequently asked questions being Did the pass rate go up
Are standards dropping Are the results real or have they been manipulated How is our education system doing Are we
meeting the development goals What should the matriculation examination of the future look like participants from
government national and provincial **Pitman's Journal of Commercial Education** ,1920 **International Journal of**
Language Studies (IJLS) - volume 9(2) Mohammad Ali Salmani Nodoushan,

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