

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...

14 November Paper Maths Exam Grd1

**Trevor Dixon (Mathematics
teacher), Paul Burns (Dramatist), John
Beeby**

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The Compact Edition of the Oxford English Dictionary Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933 *Year 10 Mathematics Practice Papers* Dilan Wimalasena, 2020-04-28 This book contains 6 exam practice papers and it is aimed at year 10 end of year GCSE preparation mathematics examinations These papers are written according to the year 10 GCSE mathematics syllabuses mainly for schools in The United Kingdom However they can still be used as practice for other exams for 14 to 15 year old students as well Each section contains 3 exam papers labelled as paper 1 paper 2 paper 3 similar to the actual exam *Maths* Trevor Dixon (Mathematics teacher), 2014 **Maths, English and Science** Trevor Dixon (Mathematics teacher), Paul Burns (Dramatist), John Beeby, 2014 *Official National Test Papers, Maths Tests*, 1999

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