

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 For Grade 11 Final Exam

Puja Mehta



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This book is based on the best papers accepted for presentation during the International Conference on Current Problems of Applied Mathematics and Computer Systems APAMCS 2023 The book includes research materials on mathematical problems and solutions in the field of scientific computing artificial intelligence data analysis and modular computing The scope of numerical methods in scientific computing presents original research including mathematical models and software implementations related to the following topics numerical methods in scientific computing solving optimization problems methods for approximating functions etc The studies in data analysis and modular computing include contributions in the field of deep learning neural networks mathematical statistics machine learning methods residue number system and artificial intelligence In addition some articles focus on mathematical modeling of nonlinear physical phenomena Finally the book gives insights into the fundamental problems in mathematics education The book intends for readership specializing in the field of scientific computing parallel computing computer technology machine learning information security and mathematical education **Manual for the USES General Aptitude Test Battery: Development** United States Employment Service,1979 **"Code of Massachusetts regulations, 2013"** ,2013 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *The Massachusetts register* ,2002 **"Code of Massachusetts regulations, 2015"** ,2015 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *"Code of Massachusetts regulations, 2016"* ,2016 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 *"Code of Massachusetts regulations, 2011"* ,2011 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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