

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'

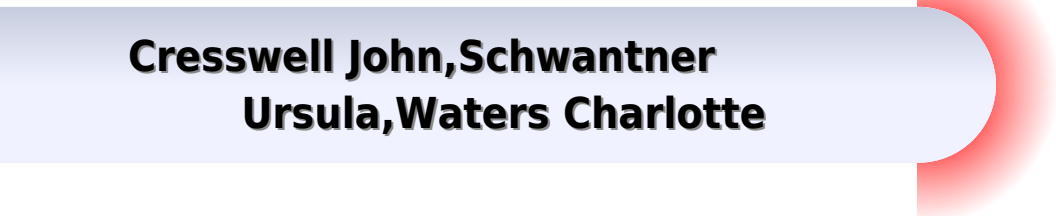
5 × 3 × 2 = 30

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 Grade Final Year 2014 Paper

**Cresswell John, Schwantner
Ursula, Waters Charlotte**



Mathematics Grade Final Year 2014 Paper :

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Mathematics Grade Final Year 2014 Paper**

In a world inundated with monitors and the cacophony of instantaneous transmission, the profound power and emotional resonance of verbal art often diminish in to obscurity, eclipsed by the constant assault of noise and distractions. However, located within the musical pages of **Mathematics Grade Final Year 2014 Paper** , a interesting work of fictional brilliance that pulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, this exciting opus guides visitors on a mental odyssey, softly exposing the latent potential and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is key subjects, dissect their charming publishing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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