

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව

අධ්‍යයන පොදු සහතික පත්‍ර(උසස් පෙළ), 2003 අප්‍රේල්

සංයුක්ත ගණිතය I

පැය තුනයි

01).  $\lambda \in \mathbb{R}$  සහ  $p(x) = (\lambda - 2)x^2 - 3(\lambda + 2)x + 6\lambda$  යයි ගනිමු.

- යියලු  $x \in \mathbb{R}$  සඳහා  $p(x)$  ධන වන සේ වූ  $\lambda$  හි අවුනම නිඛිලය සොයන්න.
- $p(x) = 0$  සමීකරණයට ප්‍රතිත්ත තාත්වික මූල දෙකක් තිබෙන්නේ  $\lambda$  හි කවර අගයන් සඳහා ද?
- $p(x) = 0$  හි මූල තාත්වික ද එම මූල දෙකෙහි වෙනස 3 ට සමාන ද නම්  $\lambda$  සොයන්න.

02)(a). එක්තරා පන්තියක ශිෂ්‍යයන් 8 දෙනෙකු සිටි, තරඟයකට සහභාගී වීම සඳහා කණ්ඩායම් හතරකට එම ශිෂ්‍යයන් බෙදීමට පංතියේ ගුරුවරයාට අවශ්‍ය වේ. කණ්ඩායම් වල තරම එක හා සමාන වීම අවශ්‍යම නොවන අතර කණ්ඩායමක් එක් තැනැත්තෙකුගෙන් වුව ද සමන්විත විය හැක.

අවශ්‍ය කණ්ඩායම් හතර 1701 ආකාරයකින් සෑදිය හැකි බව පෙන්වන්න.

(b). සුපුරුදු අංකනයෙන්,

$0 \leq r \leq n - 1$  සඳහා  $n_{C_{r+1}} + n_{C_r} = n + 1_{C_{r+1}}$  බව පෙන්වන්න.

තවද,  $0 \leq r \leq 2002$  සඳහා

$2003_{C_r} + 2004_{C_r} + \dots + 2013_{C_r} = 2014_{C_{r+1}} - 2003_{C_{r+1}}$

බව අපෝහනය කරන්න.

03)(a). ගණිත අභ්‍යුහන මූලධර්මය උපයෝගී කර ගනිමින් සෑම  $n$  ධන නිඛිලයක් සඳහාම  $8(n + 1)! > 2^{n+1}(n + 2)$  බව සාධනය කරන්න.

$\sum_{k=1}^n \frac{k!}{2^k} > \frac{1}{16}(n^2 + 3n + 4)$  බව අපෝහනය කරන්න.

එ නමින්,  $\sum_{k=1}^{\infty} \frac{k!}{2^k}$  ශ්‍රේණිය අභිසාරී නොවන බව පෙන්වන්න.

(b).  $|x + 2| + |x - 1| > 5$  අසමානතාව සපුරාලන  $x$  හි සියලු ම තාත්වික අගයන්ගෙන් සමන්විත කුලකය සොයන්න.

# Sri Lankan Ol Past Papers

**Richard Bailey**



## **Sri Lankan Ol Past Papers:**

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Pārlimēntuva. Senate,1950      *UNEP News* ,1985      Case Studies in Ecohealth Susan C. Cork,Douglas P. Whiteside,2024-04-12 Case Studies in Ecohealth is primarily intended to be a student textbook using a series of case studies to illustrate key concepts applicable to EcoHealth with a focus on taking an interdisciplinary approach to solving complex problems at the interface between animals and their environment Using case studies the book will illustrate key concepts in EcoHealth allowing readers to better understand the strengths and challenges of taking an Eco Health approach Within the key themes addressed in the book the reader will gain insight into how to approach complex problems at the animal environment interface using a transdisciplinary approach Access to the case studies presented in the book along with supplementary material on line will provide the reader with good examples of current and emerging issues for discussion in the class room or for field experience programs 5m Books      Natural Capital Peter Kareiva,2011-04-07 In 2005 The Millennium Ecosystem Assessment MA provided the first global assessment of the world s ecosystems and ecosystem services It concluded that recent trends in ecosystem change threatened human wellbeing due to declining ecosystem services This bleak prophecy has galvanized conservation organizations ecologists and economists to work toward rigorous valuations of ecosystem services at a spatial scale and with a resolution that can inform public policy The editors have assembled the world s leading scientists in the fields of conservation policy analysis and resource economics to provide the most intensive and best technical analyses of ecosystem services to date A key idea that guides the science is that the modelling and valuation approaches being developed should use data that are readily available around the world In addition the book documents a toolbox of ecosystem service mapping modeling and valuation models that both The Nature Conservancy and the World Wide Fund for Nature WWF are beginning to apply around the world as they transform conservation from a biodiversity only to a people and ecosystem services agenda The book addresses land freshwater and marine systems at a variety of spatial scales and includes discussion of how to treat both climate change and cultural values when examining tradeoffs among ecosystem services      **Tribune** ,1980      *Billboard* ,2007-05-05 In its 114th year Billboard remains the world s premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends

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