THE

Mathematics Student

A Quarterly Dedicated to the Service of Students and Teachers of Mathematics in India.

VOL. XI  MARCH & JUNE 1943  Nos. 1 & 2

Edited by
Annamalai University, Annamalainagar, South India.

With the co-operation of
N. Durairajan, M.A., B.E.
V. Ganapati Iyer, M.A., D.Sc.
A. A. Krishnaswami Ayyangar, M.A., LL.T.
B. Ramamurti, M.A., D.Sc.
S. Sivashankaranarayana Pillai, D.Sc.
H. Subramani Iyer, M.A., Ph.D.

and others.

Printed by REV. Fr. A. SUSAI REGIS,
Supt., St. Joseph's Industrial School Press, Trichinopoly
AND
Published by S. MAHADEVAN, M.A.,
Hon. Asst. Secretary, Presidency College, Madras.

1944
CONTENTS

Abdus Salam: A problem of Ramanujan .......................... 50–51
Dhamija G. L.: A well-known geometrical fallacy .......... 47–49
The Editor: The perpetual calendar problem and its solutions .... 7–9
Gupta, Hansraj: On residue chains ............................. 54–55
Hussain S. T.: A method of extracting the $n^{th}$ root ........ 12–15
Kesava Menon P.: Some inequalities involving the $\Gamma$ and $\zeta$ functions ...... 10–12
------------------------: Some integral inequalities .......... 36–38
------------------------: A note on four point system of conics ... 44
Konnulil A. O.: Orthocentre of a cyclic polygon ............ 28–30
Krishnamurti R.: Reform of the Hindu Calendar ............. 51–53
Krishnaswamy Iyengar A. A.: Popular lecture: Random lines and digits ...... 93–98
Mandan, Sahib Ram: Feuerbach's theorem ...................... 54
Minakshisundaram S.: A new summation process ............ 21–27
Puri, Amritsagar: On some problems in the theory of equations ........................ 15–20
Ramanathan K. G.: Congruence properties of $\sigma(\!\!n\!\!)$, the sum of the divisors of $n$ ... 33–35
------------------------: Some trigonometrical identities .... 39–42
Subramania Iyer H.: A design for a perpetual calendar ...... 1–5
Subramania Iyer K.: A perpetual calendar .................... 6
Sulaiman Umar: Omar Khayyam's Calendar .................. 45–47
Suryanarayana B.: A theorem on divisibility .................. 42–43
Venkataraman C. S.: A note on Question 1780 ............... 49
Venkataraman M. and Kesava Menon P.: On B. R. Venkata-
raman's chain of theorems in circle Geometry .............. 31–32
Announcements and news: ...................................... 60–63, 115–116
Solutions to Questions: ........................................... 63
Questions for solution: ............................................ 64
Gleanings: 20, 27, 55, 59, 92, 102.
Reviews:
F. W. Levi Algebra ................................. 56–57
B. R. Kulkarni: The Lagna System of the Vedanga
Jyantisha or the Obsolete Indo-Iranian Time Measure .... 58
G. S. Mahajani: An introduction to pure solid geometry .. 56
M. V. Jambunathan: Elementary Trigonometry, Elementary
Analytical Geometry, Elementary Calculus .................. 114–115
A. C. Banerji: Recent advances in Galactic dynamics .... 113–114