THE MATHEMATICS STUDENT

EDITED BY
J. N. KAPUR

with the assistance of M. K. SINGAL AND S. K. GUPTA

VOLUME XXXVII, NUMBERS 1, 2, 3 AND 4

JANUARY—DECEMBER, 1969

(Is ued December, 1969)

PUBLISHED BY
THE INDIAN MATHEMATICAL SOCIETY

L SOCIETY

SITY OF DELHI, DELHI

ournal)

UNCIL:

PATNI ENKATACHALIENGAR

SHRIKHANDE

. SINGH

NTI NARAYAN

CIETY

of the Indian Mathematical abscription for the Journal is for the STUDENT Rupees

consist of six numbers and mbers, each number published following are out of stock: tol. 11, Nos. 4 and 6; Vol. 12, are available. The prices of er number of Vols. 1 to 19 and and Rs. 20.00 or Sh. 35 or

consist of eight numbers and the number published quarterly. 1. 8, No. 2; Vol. 9, No. 1; 3, Nos. 3 & 4; Vol. 14, No. 1; the numbers are Rs. 4.00 or .00 or Sh. 28 or \$ 4.00 per

onsist of four numbers, each r \$ 0.75 per number.

ation associated with a desmic 5.

.00 or Sh. 8 or \$ 1.25. nised book-sellers.
ove may be addressed to

LIBRARY THEMATICS

5, INDIA

CONTENTS

	Page
JAY E. STRUM : An introduction to projective invariar The uses of adversity	nts:
A.S. ADIKESAVAN : The equi-adian property	9
S.C. AGRAWAL AND : Fluid layer heated from below	15
MIHIR B. BANERJEE	15
GOVIND PRASAD : On the summability of a class of fourier	series 23
Fr. Augustine O. : Isogonal conjugates in E_n Konnully	29
S.S. Subramanyam: On some cremona involutions concern certain deltoids	ning 35
MIRA BHARGAVA : Criteria of integrability of the Riccati equand H. Kaufman	uation 43
D.K. Sinha : A note on the torsional disturbances in a	thin
rod placed in a magnetic field	67
B.M. AGRAWAL AND: The solution of a general integral equation V.P. SAXENA	on 71
B.V. RAO : Compactification of a totally ordered set	
D. Suryanarayana: A generalisation of Dedekind's ψ-functio	n 81
K. THANIGASALAM: On sums of positive integral powers	87
Braja Kishore Ray: On the absolute Riesz summability of	
series associated with the conjugate series a fourier series	s of 91
A.M. VAIDYA : On Mersenne's Fermat's and triang numbers	101
PRIYAMVADA SAH : On the dimensionality of irreducible re	pre-
sentations of a finite group	105
O.P. SHARMA : On generalised Hankel and k-transforms	109
P. ANANDANI : Some infinite series of H-function 1	117
S.M. KERAWALA: On the invariants of the powers of a ma	trix 125
T.N. SINHA : A Diophantine Problem	131
H.V. KRISHNA : Identities of General Fibonacci Series	137
R.U. VERMA : On Fractional Integrals of two Varia	
and a Generalisation of the Laplace Tr	
formation	143

D. SURYANARAYANA: The Greatest of n which is Prime to kO.P. SHARMA

: On Generalised Hankel and Meijer-Laplace Transforms

P.N. SHRIVASTAVA : On a New Generalised Function AND G.K. DHAWAN

ROBERT SPIRA : A Zeta-Function Identity

A.N. GOYAL : Some Infinite Series of H-Function

REKHA PANDA : Generalized Polynomial $A_n(x)$ and Few Double

Integral Representations

SHORT COMMUNICATIONS

NIEL SHILKRET : Spectra of algebraic elements algebras

P. KESAVA MENON : A generalization of the relation [m, n]

(m, n) = mnS.S. Krishna Murthy: Polynomial expansion for the incomplete

Gamma function for positive integral values of a

: A note on absolute convergence of C.M. PATEL orthogonal series

R.S. GUPTA AND

: A numerical solution of the Lane-Emden J.P. SHARMA equation of index 5

AMAL KUMAR BAGCHI : Note on determination of height of a rod from lengths of meridian shadows on the

same meridian

S.N. MEHROTRA : On sums of powers

S.S. DALAL : A series for the value of π : Measurement of angles by using the D. RAMESWAR RAO

compass only

: Some theorems on Fermat's last theorem D. RAMESWAR RAO M. PERISASTRI : A note on the equation $a^x - b^y = 10^z$ A.M. VAIDYA : On kaprekar's tests for self numbers

: Short note on Beta and Barnes' G-functions A.K. BAGCHI : Two identities involving bilinear con-N.K. CHAKRAVARTY

comitants : Note on Liouvill's λ -and D. SURYANARAYANA Euler's ϕ —functions

R.P. SINGH AND : A note on Hermite polynomials

P.N. SHRIVASTAVA **BOOK REVIEWS**