

**Regular/Back Exam-2077, Magh/Phalgun**

**Program:** Diploma in Agriculture (Animal/Plant Science)

Year/Part: First Year (2014)

**Subject: Mathematics**

**Full Marks: 80**

**Pass Marks: 32**

Time: 3 hrs

Candidates are required to give their answers in their own words as far as practicable.  
The figures in the margin indicate full marks.

### Group "A"

**Attempt All questions.**

**[8(2+2)=32]**

1. a) Let  $U = \{a, e, i, o, u\}$ ,  $A = \{a, i, u\}$ ,  $B = \{a, e, o\}$  find :  
 i)  $A \cup B$  ii)  $A - B$   
 b) Rewrite without using absolute value sign :  $|2x + 1| \leq 3$
2. a) Let  $A = \{0, 1, 2, 3, 4, 5, 6\}$  and a function  $f : A \rightarrow \theta$  be defined by  $f(x) = \frac{x}{2}$ . Find the range of  $f$ .  
 b) Prove that :  $\log(1 + 2 + 3) = \log 1 + \log 2 + \log 3$
3. a) if  $\tan x = K \tan y$ , show that  $(k - 1) \sin(x + y) = (k + 1) \sin(x - y)$   
 b) Solve the equation,  $\sin x + \sqrt{3} \cos x = \sqrt{2}$ .
4. a) If  $\tan^{-1}x + \tan^{-1}y + \tan^{-1}z = \pi$ , prove that  $x + y + z = xyz$   
 b)  $G$  is the geometric mean between  $a$  and  $b$ , show that:  

$$\frac{1}{G^2 - a^2} + \frac{1}{G^2 - b^2} = \frac{1}{G^2}$$

$$G = \sqrt{ab}$$
5. a) If  $A = \begin{bmatrix} 3 & -2 \\ 4 & -2 \end{bmatrix}$  and  $I = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$   
 then find  $K$  when  $A^2 - KA + 2I = 0$  where  $I$  denotes identity matrix of  $2 \times 2$ .  
 b) Solve by crammer's rule method :  

$$\begin{aligned} 2x - y &= 5 \\ x - 2y &= 1 \end{aligned}$$
6. a) If the equation  $x^2 + 2(k + 2)x + 9k = 0$  has equal roots. Find the value of ' $k$ '.

# Diploma First Year Mathematics Questions Paper

**Michael Rajnik**



## **Diploma First Year Mathematics Questions Paper:**

*IB Prepared: Mathematics applications and interpretations ebook* David Harris, Peter Gray, 2021-05-13 IB Prepared resources are developed directly with the IB to provide the most up to date authentic and authoritative guidance on DP assessment IB Prepared Mathematics applications and interpretation combines a concise review of course content with strategic guidance past paper material and exam style practice opportunities allowing learners to consolidate the knowledge and skills that are essential to success

**Graduate Work in Mathematics in Universities and in Other Institutions of Like Grade in the United States** Arthur Coleman Monahan, George Drayton Strayer, International Commission on the Teaching of Mathematics, William Carl Ruediger, Wilson, Louis N., 1911

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*Resources in Education*, 1998

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**Transactions of the Moscow Mathematical Society** P. S. Aleksandrov, 1976-12-31 Focuses on topics in differential equations including linear partial differential equations elliptic equations pseudodifferential equations and Petrovskii correct differential operators This volume is dedicated to the memory of Ivan Georgievic Petrovskii and contains a memoriam of his life and work

**Indian Armed Forces Yearbook**, 1976

**Parliamentary Papers** Great Britain. Parliament. House of Commons, 1853

**7 SAT Practice Tests 2023 + Online Practice** Philip Geer, Stephen A. Reiss, 2022-07-05 A guide to preparing for the SAT college entrance exam featuring test taking strategies practice problems and exercises

*The Engineer*, 1897

*Pratiyogita Darpan*, 2008-03 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine

**Elasticity and Toughness** Feng Wei, 2021-12-30 This book examines minban teacher policies and their implementation in China between 1949 and 2000 when rural areas were in severe shortage of qualified teachers During this period of time minban teachers

made great contributions to education doing the same work as state employed school teachers while receiving much lower salaries due to non official status With solid fieldwork on oral history of minban teachers and policy actors and deep examination of a wealth of policy documents in private and governmental archives the author records the life history of minban teachers the process of minban teacher policies and the interaction between policies and individual strategies in M county pseudonym located in northern Jiangsu province of China The book reveals many interesting and sometimes surprising findings about the characteristics of educational policy implementation in China While China s minban teacher policies have come to an end rural education continues to be a major concern of policymakers and researchers alike The book is an important piece of scholarship for the readers interested in rural education in China and in how state society and culture interact to influence teacher policies and management in the Chinese context     Journal of Education and School World ,1889     **The Educational Times, and Journal of the College of Preceptors** ,1899     **Journal of the Society of Arts** ,1854     **Journal** Royal Society for the Encouragement of Arts, Manufactures and Commerce,1853     **Journal of the Society of Arts** Royal Society of Arts (Great Britain),1854     *Calendar* University College, London,1934     Kenya Gazette ,1979-07-20 The Kenya Gazette is an official publication of the government of the Republic of Kenya It contains notices of new legislation notices required to be published by law or policy as well as other announcements that are published for general public information It is published every week usually on Friday with occasional releases of special or supplementary editions within the week     **Atlantic Monthly** ,1889

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