

Regular/Back Exam-2077, Magh/Phalgun

Program:

Year/Part:

Subject:

Science)

1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

100

1000

The figures in the margin indicate full marks.

not all ques

$$a \in u, \quad A = \{a, i, u\}, \quad B = \{a, e$$

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:
$$\frac{1}{G^2 - a^2} + \frac{1}{G^2 - b^2} = \frac{1}{G^2}$$
 $G_m = \sqrt{ab}$
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 2×2 .
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 '.

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G Thomas



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The Engineer, 1897

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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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