

# MATHEMATICS

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**Maximum Marks: 80**

**Time Allowed: Three hours**

*(Candidates are allowed additional 15 minutes for only reading the paper.  
They must NOT start writing during this time).*

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*This Question Paper consists of three sections A, B and C.*

*Candidates are required to attempt all questions from Section A and all questions  
**EITHER** from Section B **OR** Section C.*

*Section A: Internal choice has been provided in two questions of two marks each,  
two questions of four marks each and two questions of six marks each.*

*Section B: Internal choice has been provided in one question of two marks and  
one question of four marks.*

*Section C: Internal choice has been provided in one question of two marks and  
one question of four marks.*

*All working, including rough work, should be done on the same sheet as,  
and adjacent to the rest of the answer.*

*The intended marks for questions or parts of questions are given in brackets [ ].  
Mathematical tables and graph papers are provided.*

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## SECTION A - 65 MARKS

### Question 1

In subparts (i) to (x) choose the correct options and in subparts (xi) to (xv), answer the questions as instructed.

(i) Which of the following is **NOT** an equivalence relation on  $\mathbb{Z}$ ?

[1]

(a)  $aRb \Leftrightarrow a + b$  is an even integer

(b)  $aRb \Leftrightarrow a - b$  is an even integer

(c)  $aRb \Leftrightarrow a < b$

(d)  $aRb \Leftrightarrow a = b$

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## Maths Paper February 2memorandum:

Reports and Memoranda, 1929      *Papers Regarding the Educational Conference, Allahabad, February 1911* American Association of Colleges of Osteopathic Medicine. Educational Conference, 1911      *The Bookseller*, 1917      **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society, 1985      **Western Kentucky University** Lowell H. Harrison, 2021-12-14 Most Hilltoppers believe that Western Kentucky University is unique They take pride in its lovely campus its friendly spirit the loyalty of its alumni and its academic and athletic achievements But Western's development also illustrates a major trend in American higher education during the past century Scores of other institutions have followed the Western pattern growing from private normal school to state normal school to teachers college to general college finally emerging as an important state university Historian Lowell Harrison traces the Western story from the school's origin in 1875 to the January 1986 election of its seventh president For much of its history Western has been led by paternalistic presidents whose major battles have been with other state schools and parsimonious legislatures In recent years the presidents have been challenged by students and faculty who have demanded more active roles in university governance and by a Board of Regents and the Council on Higher Education which have raised challenging new issues Harrison's account of the institution's development is laced with anecdotes and vignettes of some of the school's interesting personalities President Henry Hardin Cherry whose chapel talks convinced countless students that the Spirit Makes the Master Uncle Ed Diddle whose flying towel and winning teams earned national basketball fame Daddy Burton who could catch flies while lecturing Miss Gabie Robertson who held students into the next class period the lone Japanese student who was on campus during World War II Harrison also recalls steamboat excursions the Great Depression and the Second World War the astounding boom in enrollment and buildings in the 1960s the period of student unrest and the numerous fiscal crises that have beset the school This is the story of an institution proud of its past and seeking to chart its course into the twenty-first century      *Sessional Papers* Great Britain. Parliament. House of Commons, 1902      **The Launching of Duke University, 1924-1949** Robert Franklin Durden, 1993 In this rich and authoritative history distinguished historian Robert F Durden tells the story of the formation of Duke University beginning with its creation in 1924 as a new institution organized around Trinity College As Durden reveals this narrative belongs first and foremost to Duke University's original President William Preston Few whose visionary leadership successfully launched the building of the first voluntarily supported research university in the South In focusing on Duke University's most formative and critical years its first quarter century Durden commemorates Few's remarkable successes while recognizing the painful realities and uncertainties of a young institution Made possible by a gift from James B Duke the wealthiest member of the family that had underwritten Trinity College since 1890 Duke University was organized with Few as president Few's goal was to turn Duke into a world class institution of higher education and these early years saw the development of much of what we know as Duke University today Drawing on

extensive archival material culled over a ten year period Durden discusses the building of the Medical Center the rebuilding of the School of Law the acquisition of the Duke Forest and development of the School of Forestry the nurturing of the Divinity School and the enrichment of the Graduate School of Arts and Sciences It was also during this period as Durden details that such treasures as the Sarah P Duke Gardens were created as well as some near treasures as seen by the failed attempt to start an art museum Although the story of the birth of this University belongs largely to William Preston Few other people figure prominently and are discussed at length Alice Baldwin who led in the establishment of the Woman s College emerges as a fascinating figure as do William H Wannamaker James B Duke William Hanes Ackland Robert L Flowers Justin Miller and Wilburt Cornell Davison among others Although impressive growth occurred in Duke s formative years tensions also arose The need to strike an institutional balance between the twin demands of teaching and research of regional versus national status combined with continual shortages of funds created occasional obstacles The problem of two sets of trustees one for the university and another for the Duke Endowment loomed largest of all As Few himself said during these early years Duke successfully embarked on a long journey for it was not until after World War II that Duke University consolidated the growth begun in the inter war years An important contribution to the history of Southern higher education as well as to Duke University this book will be of great interest to historians alumni and friends of Duke University alike

**Catalogue of Works (other Than Parliamentary Papers and Acts of Parliament) Published by His Majesty's Stationery Office** Great Britain. His Majesty's Stationery Office,1921 **Catalogue of Works (other Than Parliamentary Papers and Acts of Parliament)** Great Britain. His Majesty's Stationery Office,1919 **Oxford University Gazette** University of Oxford,1909 *The English Catalogue of Books ...: 1801-1836. Ed. and comp. by R.A. Peddie and Q. Waddington. 1914* ,1921 Parliamentary Papers Great Britain. Parliament. House of Commons,1918 *Incorporated Accountants' Journal* ,1925 *Orissa Gazette* Odisha (India),1964 *Catalogue of Scientific Papers* ,1870 **Catalogue of Scientific Papers** Royal Society (Great Britain),1870 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1971 First multi year cumulation covers six years 1965 70 *Catalogue of Scientific Papers, 1800-1900* Royal Society (Great Britain),1870 **Catalogue of Scientific Papers (1800-1863)** Royal Society (Great Britain),1870 **The Railway Age** ,1888

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