

## VECTORS

1. The position vectors  $\mathbf{a}$  and  $\mathbf{b}$  are given by

$$\mathbf{a} = 2p\mathbf{i} + 3p\mathbf{j} + 6p\mathbf{k} \quad \text{and} \quad \mathbf{b} = \mathbf{i} - 2\mathbf{j} + 2\mathbf{k},$$

where  $p > 0$ . It is given that  $|\mathbf{a}| = |\mathbf{b}|$ .

- (i) Find the exact value of  $p$ . [2]

- (ii) Show that  $(\mathbf{a} + \mathbf{b}) \cdot (\mathbf{a} - \mathbf{b}) = 0$ . [3]

## SERIES

2. (i) Find the first ~~three~~ terms of the Maclaurin series for  $e^x(1 + \sin 2x)$ . [You may use standard results given in the List of Formulae (MF15).] [3]

- (ii) It is given that the first two terms of this series are equal to the first two terms in the series expansion, in ascending powers of  $x$ , of  $(1 + \frac{1}{3}x)^n$ . Find  $n$  and show that the third terms in each of these series are equal. [3]

## SEQUENCES

3. The sum,  $S_n$ , of the first  $n$  terms of a sequence  $u_1, u_2, u_3, \dots$  is given by

$$S_n = n(2n + c),$$

where  $c$  is a constant.

- (i) Find  $u_n$  in terms of  $c$  and  $n$ . [3]

- (ii) Find a recurrence relation of the form  $u_{n+1} = f(u_n)$ . [2]

## IMPLICIT DIFFERENTIATION

4. (i) Given that  $x^2 - y^2 + 2xy + 4 = 0$ , find  $\frac{dy}{dx}$  in terms of  $x$  and  $y$ . [4]

- (ii) For the curve with equation  $x^2 - y^2 + 2xy + 4 = 0$ , find the coordinates of each point at which the tangent is parallel to the  $x$ -axis. [4]

## TRANSFORMATION

5. The curve with equation  $y = x^3$  is transformed by a translation of 2 units in the positive  $x$ -direction, followed by a stretch with scale factor  $\frac{1}{2}$  parallel to the  $y$ -axis, followed by a translation of 6 units in the negative  $y$ -direction.

- (i) Find the equation of the new curve in the form  $y = f(x)$  and the exact coordinates of the points where this curve crosses the  $x$ - and  $y$ -axes. Sketch the new curve. [5]

- (ii) On the same diagram, sketch the graph of  $y = f^{-1}(x)$ , stating the exact coordinates of the points where the graph crosses the  $x$ - and  $y$ -axes. [3]

# Gce O Level Mathematics Past Papers

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## **Gce O Level Mathematics Past Papers:**

GCE O Level Examination Past Papers with Answer Guides: Maths India Edition Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal

**Exam Papers for Gce "o" Level Additional Maths , Longman Effective Guide to 'O' Level Additional Mathematics** Bee Hoo Ong, 2006 Learning Through Examples Maths S4 Se , Host Bibliographic Record for Boundwith Item Barcode 30112033788453 and Others , 2013 Developing 21st Century Competencies In The Mathematics Classroom: Yearbook 2016, Association Of Mathematics Educators Pee Choon Toh, Berinderjeet Kaur, 2016-05-20

The aim of this book is to contribute towards literature in the field of mathematics education specifically the development of 21st century competencies amongst learners of mathematics The book comprising fourteen chapters written by renowned researchers in mathematics education provides readers with approaches and applicable classroom strategies to foster skills and dispositions that will enable learners to thrive in the fast changing and complex world that we live in today The chapters in the book can be classified into three broad themes The first is an examination of what is meant by 21st century competencies and how they can be developed within the context of the mathematics curriculum The second is an in depth discussion of evidence based practices aimed at fostering specific competencies like metacognition and reflective thinking critical thinking and communication skills The last and third theme is about teaching approaches that are likely to feature increasingly in the 21st century classroom for example flipped learning or the use of comics and storytelling

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**The National Bibliography of Nigeria** , 2005 **Teaching Statistical Concepts** Anne Hawkins, Flavia Jolliffe, Leslie Glickman, 2014-09-19 There is growing recognition that statistics should be part of the core curriculum for the compulsory schooling of all children leading to a now urgent need for teachers to be trained in both statistical content and appropriate teaching methods This book lays the foundation for teacher s responses to these changes exploring how best to teach those applied skills which are now seen to be a more relevant part of the content of statistical courses *A General Bibliography of the Gambia* David P. Gamble, 1998

**Design and Usability of Digital Libraries: Case Studies in the Asia Pacific** Theng, Yin-Leng, 2004-12-31 This book showcases some of the best digital library practices from organizations in the Asia Pacific Particular emphasis has been placed on the design use and usability of digital libraries In addition to digital libraries it also examines related technologies the management of knowledge in digital libraries and the associated usability and social issues surrounding digital libraries

The book will benefit practitioners researchers educators and policy makers from a variety of disciplines In particular developers designers of digital libraries librarians users and researchers will all find this collection of case studies a valuable tool

*Nigerian Books In Print 1996* ,1996      **The Gambia National Bibliography** ,1990      *Some Developments in Research in Science and Mathematics in Sub-Saharan Africa* Lorna Holtman,2008

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