



MATHEMATICS

0963/03

Paper 3

October/November 2013

2 hours 30 minutes

Additional Materials:

Answer paper
Electronic calculator
Geometrical instruments

Graph Paper (2 sheets)
Mathematical tables (optional)

READ THESE INSTRUCTIONS FIRST

Write your answers on the separate answer paper provided.

Start each question on a fresh side of the page.

Write your centre number, candidate number and name on each sheet of answer paper you use.

Answer all questions.

All working must be clearly shown. The working should be done on the same sheet as the rest of the answer. Marks will be given for working which shows that you know how to solve the problem even if you get the answer wrong.

At the end of the examination, fasten all your work securely together using the string provided.

Do not use staples, paper clips, highlighters, glue or correction fluid.

The number of marks is given in brackets [] at the end of each question or part-question.

The total of the marks for this paper is 120.

Electronic calculators may be used.

If the degree of accuracy is not specified in the question and if the answer is not exact, the answer should be given to three significant figures. Answers in degrees should be given to one decimal place.

In any question where the value of π is required, use the value from your calculator or take π as 3.142.



Mathematical formulae for paper 3

Surface area and volume of solids

Name of solid	Total surface area	Volume
cone	$\pi r^2 + \pi rl$	$\frac{1}{3} \pi r^2 h$
pyramid		$\frac{1}{3} \times \text{base area} \times \text{height}$
sphere	$4\pi r^2$	$\frac{4}{3} \pi r^3$

Trigonometry

Sine Rule

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

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**Endah
Retnowati, Suprpto, Mohammad
Jerusalem, Kristian Sugiyarto, Wagiran**

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ICMLG2013 Proceedings of the International Conference on Management, Leadership and Governance, 2013

CAA2014: 21st Century Archaeology F. Giligny, F. Djindjian, L. Costa, 2015-03-31 This volume brings together a selection of papers proposed for the Proceedings of the 42nd Computer Applications and Quantitative Methods in Archaeology conference CAA hosted at Paris 1 Pantheon Sorbonne University from 22nd to 25th April 2014 **Case Studies in**

e-Government 2.0 Imed Boughzala, Marijn Janssen, Saïd Assar, 2014-08-29 The goal of this book is to provide a comprehensive multi dimensional approach to research and practice in e government 2 0 implementation Contributions from an international panel of experts apply a variety of methodological approaches and illustrative case studies to present state of the art analysis and perspectives Around the world governments are employing technological advancements to revolutionize their ways of working resulting in changing relationships among public organizations and their constituents Important enablers are new uses of information and knowledge sharing technologies that emerged with the advent of the Web 2 0 paradigm initially used in the private arena such user friendly participatory intuitive and flexible Web 2 0 technologies e g blogs Wikis RSS social networking platforms folksonomy podcasting mashups virtual worlds open linked data etc are increasingly disseminated within the professional sphere regardless of organization type or field of activities Current e government environments have undergone considerable transformations in an attempt to satisfy the incessant demand for more advanced e service delivery better access to information and more efficient government management Looking to the future the emergence of Web 2 0 the rise of social networks and the wider dissemination of data and information are expected to generate many benefits such as a better match between public services and citizens expectations greater adoption of online services by citizens and better control of costs and prevention of delays in the implementation of new services Governments around the world are building frameworks and proposals for e government 2 0 in the hopes of improving participation transparency and integration while speeding up the pace of innovation through collaboration and consultation This volume addresses a gap in the research literature offering timely insights on the e government 2 0 phenomenon and directions for future practice and policy **ICEL2013-Proceedings of the 8th International**

Conference on e-Learning Eunice Ivala, 2013-06-27 **Promoting Information and Communication Technology in ADB Operations** Asian Development Bank, 2014-09-01 Rapid advances in information and communication technology ICT continue to create tremendous opportunities for economic and social gains in the world s poorest areas A key infrastructure of knowledge based economies ICT is a driving force for rapidly growing new sectors The Strategy 2020 of the Asian Development Bank ADB reinforces the importance of drawing on ICT to enhance development in Asia and the Pacific In line with Strategy 2020 ADB s 2013 ICT for Development Strategy and with the support of the Republic of Korea s e Asia and Knowledge Partnership Fund EAKPF this study examines and identifies opportunities for promoting ICT in ADB operations

Proceedings of Fifth International Congress on Information and Communication Technology Xin-She Yang, R Simon Sherratt, Nilanjan Dey, Amit Joshi, 2020-10-21 This book gathers selected high quality research papers presented at the Fifth International Congress on Information and Communication Technology held at Brunel University London on February 20 21 2020 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers a valuable asset for young researchers involved in advanced studies

Special and Gifted Education: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-04-25 Diverse learners with exceptional needs require a specialized curriculum that will help them to develop socially and intellectually in a way that traditional pedagogical practice is unable to fulfill As educational technologies and theoretical approaches to learning continue to advance so do the opportunities for exceptional children Special and Gifted Education Concepts Methodologies Tools and Applications is an exhaustive compilation of emerging research theoretical concepts and real world examples of the ways in which the education of special needs and exceptional children is evolving Emphasizing pedagogical innovation and new ways of looking at contemporary educational practice this multi volume reference work is ideal for inclusion in academic libraries for use by pre service and in service teachers graduate level students researchers and educational software designers and developers

ICT4Ag (ICT Update) 77, 2014-12-31 ICT Update is a bimonthly printed and on line magazine <http://ictupdate.cta.int> and an accompanying e mail newsletter published by CTA This issue focuses on linking the farmers to markets

Innovative Teaching and Learning Methods in Educational Systems Endah Retnowati, Suprpto, Mohammad Jerusalem, Kristian Sugiyarto, Wagiran, 2019-11-11 This proceedings volume of InCoTEPD 2018 covers many ideas for handling a wide variety of challenging issues in the field of education The outstanding ideas dealing with these issues result in innovation of the system There are many innovation strategies resulting from recent research that are discussed in this book These strategies will become the best starting points to solve current and future problems This book provides an in depth coverage of educational innovation developments with an emphasis on educational systems formal or informal education strategies learning models and professional teachers Indeed those developments are very important to be explored for obtaining the right way of problem solving Providing many ideas from the theoretical foundation into the practice this book is versatile and well organized for an appropriate audience in the field of education It is an extremely useful reference for students teachers professors practitioners and government representatives in many countries

Research Anthology on Collaboration, Digital Services, and Resource Management for the Sustainability of Libraries Management Association, Information Resources, 2021-01-15 Faced with increased budget cuts libraries must continue to advance their services through new technologies and practices in order to keep pace with the rapid changes society is currently facing The once traditional in

person services offered can no longer be the only option and to keep themselves afloat libraries must offer more in terms of digital services. The convenience of offering mobile and digital services brings a new wave of accessibility to libraries and a new question on just how much libraries will need to change to meet the newfound needs of its patrons. Beyond offering these digital services, libraries are incorporating other types of technology in multifaceted ways such as utilizing artificial intelligence, practices, social media, and big data management. Moreover, libraries are increasingly looking for ways to partner and collaborate with the community, faculty, students, and other libraries in order to keep abreast of the best practices and needs of their users. The Research Anthology on Collaboration, Digital Services, and Resource Management for the Sustainability of Libraries explores emerging strategies and technologies that are redefining the role of the library within communities and academia. This reference book covers extensive ground on all the ways libraries have shifted to manage their resources, digitalize their services, and market themselves within the new technological revolution. These continued shifts for libraries come with benefits, challenges, and future projections that are critical for discussion as libraries continue to strive to remain updated and relevant in times of change. This book is ideal for librarians, archivists, collection managers, IT specialists, electronic resource librarians, practitioners, stakeholders, researchers, academicians, and students who are interested in the current state of libraries and how they are transforming to fit modern needs.

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