

1	Number	Answer	Mark	Additional guidance
(a)	10°	B1	1H	Accept answers in diagram if clear
(b)	80°	B1	1H	
(c)	42°	A1	1H	
(d)	116°	A1	1H	After 0 award M1 for $32^\circ + 10^\circ$ or equiv M1 After 0 award M2 for $2(90^\circ - 32^\circ)$ or equiv M1 After 0M0 award M1 for $90^\circ - 32^\circ$ or equiv M1

Ans a) No penalty b) No penalty c) 1 d) 1 [7]

2	Number	Answer	Mark	Additional guidance
(a)	$(m-n)(5m+n)$	A1	1H	Each wrong factor $5(m^2-n^2) - M1$ After 0 award B1 for $(m-n)(4m+2n+m+n)$ or equiv M1
(b)	90kg	A1	1H	After 0 award M1 for $81 \times 11 - 80, 1 \times 10$ M1
(c)	28% 42%	A1	1H	After 0 award M1 for $70 \times \frac{40}{100} \times \frac{100 - [40 + (\frac{30}{100} \times 60)]}{100}$ or equiv M1
(d)	$x = -4$ and $x = 2$	A1	1H	After 0 award M3 for one correct solution After 0 award M2 for $((x+4)(x-2) = 0)$ or equiv M1 After 0 award M1 for $x^2 - 2(4-x) = 0$ or equiv M1 $2(4-x) = x^2$ $x = -4$ and $x = 2$ A1 A1

Ans a) 1 b) 1 c) 1 d) 1+1 [10]

$Q = \frac{A}{\pi r}$

3	Number	Answer	Mark	Additional guidance
(a)	(i) $l = \frac{A - \pi r^2}{\pi r}$	A1	1H	After 0 award M1 for $A - \pi r^2 = \pi r l$ M1
	(ii) $l = 5(\text{cm})$	A1	1H	After 0 award M1 for $121, 44 - \pi \times 4, 2^2$ or equiv M1 $\pi \times 4, 2$
(b)	(i) $T = h + kN^2$	B1	1H	
	(ii) $h = 18$ and $k = \frac{3}{4}$	A1 A1	1H	After 0 award M2 for one correct value After 0M0 award M1 for $15 = 20k$ or equiv M1
	(iii) $T = 54\frac{3}{4}$	A1	1H	After 0 award M1 for $18 + (\frac{3}{4} \times 49)$ or equiv M1 $18 + (49 \times \frac{3}{4} \times 7^2)$ M1 M1

4	Number	Answer	Mark	Additional guidance
(a)	accept -0.375	A1	1H	After 0 award M2 for $15 - 18$ or equiv M1 $-\frac{3}{8}$
		A1	1H	After 0M0 award M1 for 9 seen or implied M1
(b)	$6x^2 + xy - 2y^2$ or equiv	A1	1H	After 0 award M1 for $6x^2 + 4xy - 3xy - 2y^2$ M1
(c)	13	A1	1H	After 0 award M1 for 8125 or equiv M1 $\frac{16}{10000}$
(d)	(i) $2^3 \times 3^5$	B1	1H	
	(ii) 18	B1	1H	
(e)	$\frac{2}{x-5}$	A1	1H	After 0 award M2 for $\frac{2(x-5)+2}{(x-4)(x-5)}$ or equiv M1 After 0M0 award M1 for $(x-4)(x-5)$ seen M1

Ans a) 1 b) 1 c) 1 d) (i) No penalty (ii) No penalty e) 1 [12]

O Level November 2002 Paper1ark Scheme

Huangqi Zhang



O Level November 2002 Paper1ark Scheme:

IGCSE Mer Merlyn ,2015-08-27 Buku IGCSE ini merupakan aplikasi dari pelajaran matematika yang berbasis di University of Cambridge Berisi kumpulan soal lengkap dengan kunci jawaban Memudahkan para siswa dalam menghadapi pelajaran matematika Semoga buku ini bisa menjadi jembatan bagi para siswa yang ingin menguasai mata pelajaran matematika dengan baik GCE O Level Examination Past Papers with Answer Guides: Economics India Edition Cambridge International Examinations,2004-02-10 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 ACCA Paper P2 - Corporate Reporting (INT and UK) Practice and revision kit (Revised Edition) BPP Learning Media,2011-06-01 Question practice is essential for all papers but particularly for P2 as it has a strong fear factor Questions look intimidating and it is only once you get into the detail that you realise that there are easy marks on offer Our examiner reviewed Practice and Revision Kit gives ample opportunity to practice the long case study questions so important in the exam Three mock exams provide essential exam rehearsal practice Many questions have marking schemes so that you can see that the examiner awards marks for these techniques **Australian Official Journal of Trade Marks** ,2002-11-21 **First International Conference on Optical Communications and Networks (ICOON 2002)** Cambyse Guy Omidyar,H. Ghafouri-Shiraz,W. D. Zhong,2002 Optical communications networks are becoming increasingly important as there is demand for high capacity links Dense wavelength division multiplexing DWDM is widely deployed at the core networks to accommodate high capacity transport systems Optical components such as optical amplifiers tunable filters transceivers termination devices and add drop multiplexers are becoming more reliable and affordable Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges New components and subsystems for very high speed optical networks offer new design options The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications network components architectures protocols planning design management and operation *A Modular Approach to Testing English Language Skills* Roger Hawkey,2004 Documents the development of the Cambridge ESOL Certificates in English Language Skills CELS a suite of modular examinations first offered in 2002 As a context for how CELS was conceived developed constructed validated and managed the book traces the history of exams which have influenced CELS The Royal Society of Arts RSA later UCLES University of Cambridge Local Examinations Syndicate Communicative Use of English as a Foreign Language examinations CUEFL was one such influence as were the Certificates in Communication Skills in English CCSE these exams being a development of the CUEFL The University of Oxford Delegacy of Local Examinations UODLE examinations taken over by UCLES in 1995 were a further

influence on CELS UODLE itself had worked in partnership with the Association of Recognised Language Schools ARELS Examinations Trust the Oxford EFL reading and writing exams for many years offered in tandem with the ARELS Oral English exams

Formal Methods in Computer-Aided Design Mark D. Aagaard, John W. O'Leary, 2003-06-30 This volume contains the proceedings of the Fourth Biennial Conference on Formal Methods in Computer Aided Design FMCAD The conference is devoted to the use of mathematical methods for the analysis of digital hardware circuits and systems The work reported in this book describes the use of formal mathematics and associated tools to design and verify digital hardware systems Functional verification has become one of the principal costs in a modern computer design effort FMCAD provides a venue for academic and industrial researchers and practitioners to share their ideas and experiences of using discrete mathematical modeling and verification Over the past 20 years this area has grown from just a few academic researchers to a vibrant worldwide community of people from both academia and industry This volume includes 23 papers selected from the 47 submitted papers each of which was reviewed by at least three program committee members The history of FMCAD dates back to 1984 when the earliest meetings on this topic occurred as part of IFIP WG10.2

Mobile Communications Jaiyong Lee, Chul-Hee Kang, 2003-08-02 This book constitutes the refereed post proceedings of the 7th CMDA International Conference CIC 2002 held in Seoul Korea in October November 2002 The 52 revised full papers presented were carefully selected during two rounds of reviewing and post conference improvements from 140 conference presentations The papers are organized in topical sections on modulation and coding cellular mobile communications IMT 2000 systems 4G mobile systems and technology software defined radio wireless LAN and wireless QoS multiple access technology wireless multimedia services resource management mobility management and mobile IP and mobile and wireless systems

Grid and Cooperative Computing - GCC 2004 Hai Jin, 2004-10-14 This book constitutes the joint refereed proceedings of five international workshops held in association with the Third International Conference on Grid and Cooperative Computing GCC 2004 in Wuhan China in October 2004 The 95 revised workshop papers presented were carefully reviewed and selected from a total of 154 submissions In accordance with the workshop titles the papers are organized in topical sections on the information grid and knowledge grid storage grid and technologies information security and survivability for the grid agents autonomic computing and grid enabled virtual organization and visualization and visual steering

Banking Information Index, 2002

Digital Watermarking Fabien Petitcolas, Hyoung Joong Kim, 2003-08-03 The 1st International Workshop on Digital Watermarking IWDW the conference covering all aspects of digital watermarking was held at the Hotel Riviera situated along the beautiful Han River in Seoul Korea from November 21 to 22 2002 These proceedings contain 21 papers that were accepted for presentation at the conference These papers were selected from 67 submissions including 3 invited papers They went through a thorough review process by the Program Committee and were selected on the basis of excellence and novelty The following is a brief description of the history of this conference and reviewing process In August 2001 some members of

the Special Interest Group on Multimedia Protection SIGMP of the Korea Institute of Information Security and Cryptology KIISC agreed to create the IWDW In November 2001 we set up a Program Committee and solicited papers while asking Springer Verlag to publish the proceedings of the workshop in their Lecture Notes in Computer Science series In July 2002 we received 64 submissions from 14 countries using Microsoft s conference management site <http://cmt.research.microsoft.com/iwdw2002> Each submission was assigned a number automatically by the conference management tool and the paper was sent to the Program Committee members for their review We also encouraged different sets of experts to join for fair reviews

Globalization Development and Social Justice Ann El Khoury, 2015-03-27 Are there existing alternatives to corporate globalization What are the prospects for and commonalities between communities and movements such as Occupy the World Social Forum and alternative economies Globalization Development and Social Justice advances the proposition that another globalization is not only possible but already exists It demonstrates that there are multiple pathways towards development with social justice and argues that enabling propositional agency rather than oppositional agency such as resistance is a more effective alternative to neoliberal globalization El Khoury develops a theory of infraglobalization that emphasizes creative constitution not just contestation of global and local processes The book features case studies and examples of diverse economic practice and innovative emergent political forms from the Global South and North These case studies are located in the informal social economy and community development as well as everyday practices from prefigurative politics to community cooperatives and participatory planning This book makes an important contribution to debates about the prospects for and practices of a transformative grassroots globalization and to critical debates about globalization and development strategies It will be of interest to students and scholars of international relations globalization social movement studies political and economic geography sociology anthropology and development studies *Recent Trends in Multimedia Information Processing* Panos Liatsis, 2002 Annotation Emphasizes the convergence of information processing algorithms and associated technologies **Maharashtra, Development Report** ,2007 Report with reference to the state of Maharashtra India *Documentation politique internationale* ,2003 **Proceedings** ,2003 A STUDY OF WOMEN WORKERS IN ERI SILK HANDLOOM INDUSTRY IN RI-BHOI DISTRICT OF MEGHALAYA DONNA RICA DIENGDOH, *Ebony* ,2005-11 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine **Los Angeles Magazine** ,2003-11 Los Angeles magazine is a regional magazine of national stature Our combination of award winning feature writing investigative reporting service journalism and design covers the people lifestyle culture entertainment fashion art and architecture and news that define Southern California Started in the spring of 1961 Los Angeles magazine has been addressing the needs and interests of our region for 48 years The magazine continues to be the definitive resource for an affluent population that is intensely interested in a lifestyle that is uniquely Southern Californian *British Education Index* ,2005

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