

Question 1 (10 marks)

You are the Manager of Electrical Engineering at an underground mine. The mine is to install a dewatering pumping system at the rear of the longwall blocks. The pumping system will be installed within a cased borehole from the surface to an area in the goaf which will become flooded and therefore not be able to be inspected.

Your Mine Operator has requested that you advise him of the requirements to complete the project and an expected time frame. Include the following information:

- a) What type of certification will be required for the installation? (1 mark)
- b) In relation to the electrical installation:
 - i) Which items are 'safety critical' for the electrical installation? (2 marks)
 - ii) Briefly explain why each item in i) above is 'safety critical'? (2 marks)
 - iii) Which items will require a SIL assessment? (1 mark)
- c) On the spreadsheet provided develop an expected project plan from the start of the project to the completion, giving the expected time frames and project tasks (4 marks) See spreadsheet over page.

N1 Question Papers An Memo 2014

**Warwick Anderson, Miranda
Johnson, Barbara Brookes**



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A Comparative Examination of Multi-Party Actions Joanne Blennerhassett, 2016-10-20 This monograph addresses the phenomenon of mass harm and how it may be resolved through collective redress. It examines particularly how such redress may be achieved through mechanisms such as multi party actions (MPAs). In order to do this an analytical framework is created against which to evaluate various multi party procedures. This is illustrated through the experience of a selection of common law jurisdictions in dealing with mass harm namely that of England and Wales, Canada, Australia and the United States as well as that of EU collective redress. It examines multi party action laws benchmarked against the objectives identified in the analytical framework. The phenomenon of environmental mass harm in particular is explored as a case study as it illustrates some of the difficulties that may arise in mass harm litigation. Also this work explores where the best solutions for mass harm redress may lie in the future perhaps in collective actions or through alternatives such as regulation and alternative dispute resolution or a combination of these. Finally the experience of mass harm litigation in Ireland is examined as currently this jurisdiction does not have an effective mechanism for dealing with mass harm. This title is included in Bloomsbury Professional's International Arbitration online service. *North of America* Asa Mc Kercher, Michael D. Stevenson, 2023-07-15 In 1941 influential US publishing magnate Henry Luce declared the world was in the midst of the first great American century believing his nation held the power and vision to lead and transform the world. What did a newly outward looking and hegemonic United States mean for its northern neighbour North of America is a sharp eyed volume providing a unique look at postwar Canada bringing to the fore the opinions and perceptions of a broad range of Canadians from consumers to diplomats, jazz musicians to urban planners and a diverse cross section in between. As they grappled with issues including constitutional reform, transit policy, national security, the arrival of television, white supremacy and postwar domesticity, Canadians were ever mindful of the unfolding American experience and its influence. **Pacific Futures** Warwick Anderson, Miranda Johnson, Barbara Brookes, 2018-11-30 How, when and why has the Pacific been a locus for imagining different futures by those living there as well as passing through? What does that tell us about the distinctiveness or otherwise of this sea of islands? Foregrounding the work of leading and emerging scholars of Oceania, *Pacific Futures* brings together a diverse set of approaches to and examples of how futures are being conceived in the region and have been imagined in the past. Individual chapters engage the various and sometimes contested futures yearned for, unrealized and even lost or forgotten that are particular to the Pacific as a region, ocean, island network, destination and home. Contributors recuperate the futures hoped for and dreamed up by a vast array of islanders and outsiders from Indigenous federalists to Lutheran improvers to Cantonese small business owners, making these histories of the future visible. In so doing, the collection intervenes in debates about globalization in the Pacific and how the region is acted on by outside forces and postcolonial debates that emphasize the agency and resistance of Pacific peoples in the context of centuries of colonial endeavor. With a

view to the effects of the slow violence of climate change the volume also challenges scholars to think about the conditions of possibility for future thinking at all in the midst of a global crisis that promises cataclysmic effects for the region Pacific Futures highlights futures conceived in the context of a modernity coproduced by diverse Pacific peoples taking resistance to categorization as a starting point rather than a conclusion With its hospitable approach to thinking about history making and future thinking one that is open to a wide range of methodological epistemological and political interests and commitments the volume will encourage the writing of new histories of the Pacific and new ways of talking about history in this field the region and beyond

God Doesn't Live Here Anymore Michael Wood Daly, 2023-01-16 The church in Canada is in trouble Media reports suggest that nine thousand churches are likely to close over the next ten years The United Church of Canada reports closing a congregation a week The Anglican Church of Canada anticipates closing its last congregation by 2040 and the Roman Catholic Church Canada's largest religious denomination reports having closed one fifth of the tradition's 2 500 congregations God Doesn't Live Here Anymore traces the story of the church in Canada from its far off historical roots in biblical times rise to dominance in medieval Europe role in the colonization of Canada strained relations with Canada's First Nations twentieth century prominence and the church's dramatic decline and loss of influence entering the twenty first century Wood Daly pulls no punches in calling the church to accept responsibility for its own decline while maintaining hope that resurrection is still possible The church as Canadians may know it might disappear but for Christians death has never been the end of the story

Justice for All Charles MacLean, Adam Lamparello, 2022-03-30 Justice for All identifies ten central flaws in the criminal justice system and offers an array of solutions from status quo to evolution to revolution to address the inequities and injustices that far too often result in courtrooms across the United States From the investigatory stage to the sentencing and appellate stages many criminal defendants particularly those from marginalized communities often face procedural and structural barriers that taint the criminal justice system with the stain of unfairness prejudice and arbitrariness Systematic flaws in the criminal justice system underscore the inequitable processes by which courts deprive citizens of liberty and in some instances their lives Comprehensive in its scope and applicability the book focuses upon the procedural and substantive barriers that often prohibit defendants from receiving fair treatment within the United States criminal justice system Each chapter is devoted to a particular flaw in the criminal justice system and is divided into two parts First the authors discuss in depth the underlying causes and effects of the flaw at issue Second the authors present a wide range of possible solutions to address this flaw and to lead to greater equality in the administration of criminal justice The reader is encouraged throughout to consider and assess all possible options then defend their choices and preferences Confronting these issues is critical to reducing racial disparities and guaranteeing Justice for all Describing the problems and assessing the solutions Justice for All does not identify all problems or all solutions but will be of immeasurable value to criminal justice students and scholars as well as attorneys judges and legislators who strive to address the pervasive flaws in

the criminal justice system **Alternative Press Index** ,2005 **The US, the UN and the Korean War** Robert Barnes,2014-02-28 Military social and economic historians have long appreciated the significance of the conflict in Korea in shaping the post war world The policy of containment was formed China was established as an important military power and the US increased its military expenditure fourfold as a result of a conflict which killed over 33 000 Americans What has been less appreciated is the role played by the United Nations and the British Commonwealth in influencing US strategy at this time of crisis the Truman administration invested time and effort into gaining UN approval for the conflict in Korea and the course of the war was adapted to keep UN allies often holding crucial strategic positions in other Cold War theatres in tow Robert Barnes develops a fresh perspective on these fluctuating relationships the tensions between Washington and its British Commonwealth allies and their impact on the direction of the conflict in order to challenge the common view that the United States was able to use its dominant position within the UN to pursue its Cold War ambitions with impunity This important new interpretation is supported by evidence from a wealth of sources from official government records to private papers and memoirs written by the most important American and Commonwealth personalities directly involved in shaping the UN s response to the conflict This study presents a thorough deconstruction of the decision making process behind US handling of the Korean War from the outbreak of conflict in 1950 to the Geneva Conference of 1954 This will be essential reading for students of International Relations Cold War Studies and modern History **Yearbook of International Organizations** ,2011 Beginning in 1983 84 published in 3 vols with expansion to 6 vols by 2007 2008 vol 1 Organization descriptions and cross references vol 2 Geographic volume international organization participation vol 3 Subject volume vol 4 Bibliography and resources vol 5 Statistics visualizations and patterns vol 6 Who s who in international organizations From year to year some slight variations in naming of the volumes **Government Reports Announcements & Index** ,1980-07

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