

QUESTION 12 (18 marks)

Based on the Entity concept parameters detailed below:

IS POWER SUPPLY			IS SOLENOID	
U ₀	11.2V		U ₁	12V
I ₀	2A		I ₁	2.5A
C ₀	15 μ F		C ₁	10 μ F
L ₀	95mH	Cable	L ₁	5mH
L/R	50 μ H/10m			

Cable Parameters are: Capacitance = 0.1 μ F/m
Inductance = 0.5 μ H/m
L/R = 50 μ H/10m

- Given the capacitance values for the power supply, cable and solenoid, what will be the maximum permitted cable length? (2 Marks)
- In considering your answer for part a), and the inductance values of each component, what can the maximum length of the cable be? (2 Marks)
- The solenoid is controlled from an output of the relay mounted in the main enclosure on the machine. The output contact of the relay is not shown in the parameter drawing above. Does it need to be considered when evaluating the circuit parameters? (1 Mark)
- What information would you expect to be displayed on the nameplate of the solenoid? (2 Marks)
- The label on the solenoid has "T2" marked on it. What specific installation requirement would have to be in place for this solenoid to be used on a continuous miner? (1 Mark)

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SB Merriam



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Law, Language, and Science Diana Jeater, 2006-12-30 This book examines the mentalities of various communities within a district of Southern Rhodesia Zimbabwe Focusing in particular on white administrators and missionaries in the Melssetter District it combines linguistic lexical analysis with historical interpretation in an attempt to reconstruct what whites and Africans actually meant by the words and practices they used in interactions with each other Jeater provides a detailed study of translation work in Mt Selinda an evangelical mission it also examines formal and informal court hearings to contrast the perceptions and meanings ascribed to cases by white adjudicators and by African participants This leads into an initial attempt to map out the birth of ethnography in Southern Rhodesia and to contrast it with anthropology in South Africa By the 1920s Africans expertise in their own languages and culture had been usurped by self referential white linguists and ethnographers This account suggests that there is a tendency among archive oriented historians to overestimate how far white missionaries and administrators really understood what Africans said and did In addition to making a contribution to our empirical knowledge of Zimbabwe s history the book focuses on how and why investigators first began to make claims to such knowledge It urges those studying African history to be self reflective about their practice examining the historical roots of their claims to expertise such claims **Federal Register** ,1994-10 **Municipal Journal, Public Works Engineer Contractor's Guide** ,1980 **The Notwithstanding Clause and the Canadian Charter** Peter L. Biro, 2024-04-02 Section 33 what is commonly referred to as the notwithstanding clause NWC was written into the Canadian Charter of Rights and Freedoms to allow Parliament and the provinces to provisionally override certain Charter rights The Notwithstanding Clause and the Canadian Charter examines the NWC from all angles and perspectives considering who should have the last word on matters of rights and justice the legislatures or the unelected judiciary and what balance liberal democracy requires In the case of Quebec the use of the clause has been justified as necessary to preserve the province s culture and promote its identity as a nation Yet Quebec s pre emptive and sweeping invocation of the clause also challenges the scope of judicial review and citizens recourse to it and it tests the assumption that a dialogue between the judiciary and the legislature is always preferable in instances in which the legislative branch decides to suspend the operation of certain Charter rights and freedoms By virtue of its contested purposes interpretations operation and applications the NWC represents and to an extent defines both the character and the very real vulnerabilities of liberal constitutionalism in Canada The significance effects and legitimacy of the NWC have been vigorously debated within scholarship and among politicians and activists since the patriation of the Canadian Constitution in 1982 In *The Notwithstanding Clause and the Canadian Charter* leading scholars jurists and policy experts elucidate and prescribe reforms to the application of this consequential clause about which so much is written and around which there is relatively little consensus **Government Reports Announcements** ,1974

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