

**QUESTION 12 (18 marks)**

Based on the Entity concept parameters detailed below:

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

Cable Parameters are: Capacitance = 0.1 $\mu$ F/m  
Inductance = 0.5 $\mu$ H/m  
L/R = 60 $\mu$ 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)

# Engineering Science N1 Questions Papers

**R Barnett**



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Environmental Science and Engineering (For Anna University) Luiz, Arun T., Environmental Science Engineering Papers Presented at the Twelfth International Conference on Fluid Sealing B. S. Nau, 1989 Very Good No Highlights or Markup all pages are intact Engineering Education 4.0 Sulamith Frerich, Tobias Meisen, Anja Richert, Marcus Petermann, Sabina Jeschke, Uwe Wilkesmann, A. Erman Tekkaya, 2017-04-12 This book presents a collection of results from the interdisciplinary research project ELLI published by researchers at RWTH Aachen University the TU Dortmund and Ruhr Universit t Bochum between 2011 and 2016 All contributions showcase essential research results concepts and innovative teaching methods to improve engineering education Further they focus on a variety of areas including virtual and remote teaching and learning environments student mobility support throughout the student lifecycle and the cultivation of interdisciplinary skills **NBS Special Publication** ,1968 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), 1985 **Journal of Mechanical Engineering Science** ,1961 Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards, 1984 **Publications of the National Bureau of Standards** United States. National Bureau of Standards, 1986 *WBSETCL AE Exam PDF: West Bengal State Electricity Transmission Company Limited Assistant Engineer (IT & CS) Exam IT & CS Engineering Subject PDF eBook* Chandresh Agrawal, nandini books, 2025-03-08 SGN The WBSETCL AE Exam PDF West Bengal State Electricity Transmission Company Limited Assistant Engineer IT CS Exam IT CS Engineering Subject PDF eBook Covers Objective Questions Asked In Various Competitive Exams With Answers *HPSC Lecturer Exam PDF-Haryana Lecturer Exam (Higher Education Department-DTE) Computer Engineering Subject Practice Sets eBook* Chandresh Agrawal, Nandini Books, 2025-01-10 SGN The HPSC Lecturer Exam PDF Haryana Lecturer Exam Higher Education Department DTE Computer Engineering Subject Practice Sets eBook Covers Objective Questions With Answers *Science Abstracts. Physics and Electrical Engineering* ,1909 **Resources in Education** ,2000-10 *Nuclear Science Abstracts* ,1966 **Telegraphic Journal and Monthly Illustrated Review of Electrical Science** ,1886 Parallel Computing in Science and Engineering Rüdiger Dierstein, Dieter Müller-Wichards, Hans-Martin Wacker, 1988-05-11 It was the aim of the conference to present issues in parallel computing to a community of potential engineering scientific users An overview of the state of the art in several important research areas is given by leading scientists in their field The classification question is taken up at various points ranging from parametric characterizations communication structure and memory distribution to control and execution schemes Central issues in multiprocessing hardware and operation such as scalability techniques of overcoming memory latency and synchronization overhead as well as fault tolerance of communication networks are discussed The problem of designing and debugging parallel programs in a user friendly environment is addressed and a number of program transformations for enhancing vectorization and parallelization in a

variety of program situations are described Two different algorithmic techniques for the solution of certain classes of partial differential equations are discussed The properties of domain decomposition algorithms and their mapping onto a CRAY XMP type architecture are investigated and an overview is given of the merit of various approaches to exploiting the acceleration potential of multigrid methods Finally an abstract performance modeling technique for the behavior of applications on parallel and vector architectures is described

**Science Abstracts** ,1916 *Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms* ,2003-01-01 From the January 2003 symposium come just over 100 papers addressing a range of topics related to discrete algorithms Examples of topics covered include packing Steiner trees counting inversions in lists directed scale free graphs quantum property testing and improved results for directed multicut The papers were not formally refereed but attempts were made to verify major results Annotation c 2003 Book News Inc Portland OR booknews com

**English Mechanic and Mirror of Science and Art** ,1883 **Concrete and Constructional Engineering** ,1928 *Proceedings of the Sixth International Conference on Computer Supported Cooperative Work in Design* Shen Weiming,Institute of Electrical and Electronics Engineers. Canadian Region,National Research Council Canada,University of Waterloo,University of Western Ontario,2001 Computer supported co operative work CSCW is a research area that aims at integrating the works of several people involved in a common goal inside a co operative universe through the sharing of resources in an efficient way This report contains the papers presented at a conference on CSCW in design Topics covered include techniques methods and tools for CSCW in design social organization of the CSCW process integration of methods co operation in virtual enterprises and electronic businesses CSCW in design interaction between the CSCW approach and knowledge reuse as found in knowledge management intelligent agent Internet World Wide Web and CSCW in design and applications test beds

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