

MEMORANDUM

QUESTION 1

(16 MARKS)

1.1 What is a scalar quantity? (1)

Quantity with magnitude only ✓✓

1.2 A Hyundai Accent moves from rest and accelerate for 20 seconds and reaches a speed of 72 km/h. It continues with the uniform velocity for 10 seconds and driver brakes and the car stop after 10 seconds.

1.2.1 Make a sketch of a velocity-time graph



Calculate the following:

1.2.2 The acceleration in the first 20 seconds.

$$a = \frac{v - u}{t} = \frac{20 - 0}{20} \checkmark = 1 \text{ ms}^{-2} \checkmark$$

1.2.3 Total distance

$$s = \text{area under curve} = \frac{1}{2}(10 + 40)20 \checkmark = 500 \text{ m} \checkmark$$

1.2.4 The average velocity in 40 seconds.

$$\text{average} = \frac{\text{displacement}}{\text{time}} = \frac{500}{40} \checkmark = 12.5 \text{ ms}^{-1} \checkmark$$

(3 × 2)

(6)

Engineering Science N3 Time Tables 2014

M Mosston



Engineering Science N3 Time Tables 2014:

2014 International Conference on Computer, Network ,2014-03-12 The objective of the 2014 International Conference on Computer Network Security and Communication Engineering CNSCE2014 is to provide a platform for all researchers in the field of Computer Network Security and Communication Engineering to share the most advanced knowledge from both academic and industrial world to communicate with each other about their experience and most up to date research achievements and to discuss issues and future prospects in these fields As an international conference mixed with academia and industry CNSCE2014 provides attendees not only the free exchange of ideas and challenges faced by these two key stakeholders and encourage future collaboration between members of these groups but also a good opportunity to make friends with scholars around the world As the first session of the international conference on CNSCE it covers topics related to Computer Network Security and Communication Engineering CNSCE2014 has attracted many scholars researchers and practitioners in these fields from various countries They take this chance to get together sharing their latest research achievements with each other It has also achieved great success by its unique characteristics and strong academic atmosphere as well as its authority

Materials Science And Energy Engineering (Cmsee 2014) - Proceedings Of The 2014 International Conference Shyan-lung Chung,Xiaolong Li,2015-03-26 This proceedings collected together ninety seven selected articles on recent research works and innovations in material science and energy engineering presented at the 2014 International Conference on Materials Science and Energy Engineering CMSEE 2014 held in Sanya Hainan China during December 12 14 2014 CMSEE2014 covers a wide range of fundamental studies technical innovations and industrial applications in material science and energy engineering and were attended by 130 participants from different countries and regions in the world including China Canada Japan Korea Taiwan Turkey Egypt and Russia to exchange notes on latest research and synergic in future scientific collaborations All papers submitted were subjected to a rigorous peer review process by at least two independent reviewers to ensure that articles selected are of highest standard and are relevance to the aims and scope of CMSEE 2014

Future Information Engineering and Manufacturing Science Dawei Zheng,2015-02-25 The 2014 International Conference on Future Information Engineering and Manufacturing Science FIEMS 2014 was held June 26 27 in Beijing China The objective of FIEMS 2014 was to provide a platform for researchers engineers academics as well as industry professionals from all over the world to present their research results and development acti

Progress in Mine Safety Science and Engineering II Xueqiu He,Hani Mitri,Baisheng Nie,Yunhai Wang,Ting X. Ren,Wenxue Chen,Xiangchun Li,2014-02-11 Progress in Mine Safety Science and Engineering II discusses mine safety techniques and technologies methods and approaches as well as problems and issues and will be of invaluable to academics and engineers interested or involved in mine safety issues

The Closing of the Liberal Mind Kim R. Holmes,2016-04-12 A former U S Assistant Secretary of State and currently a Distinguished Fellow at the Heritage

Foundation Kim R Holmes surveys the state of liberalism in America today and finds that it is becoming its opposite illiberalism abandoning the precepts of open mindedness and respect for individual rights liberties and the rule of law upon which the country was founded and becoming instead an intolerant rigidly dogmatic ideology that abhors dissent and stifles free speech Tracing the new illiberalism historically to the radical Enlightenment a movement that rejected the classic liberal ideas of the moderate Enlightenment that were prominent in the American Founding Holmes argues that today s liberalism has forsaken its American roots incorporating instead the authoritarian anti clerical and anti capitalist prejudices of the radical and largely European Left The result is a closing of the American liberal mind Where once freedom of speech and expression were sacrosanct today liberalism employs speech codes trigger warnings boycotts and shaming rituals to stifle freedom of thought expression and action It is no longer appropriate to call it liberalism at all but illiberalism a set of ideas in politics government and popular culture that increasingly reflects authoritarian and even anti democratic values and which is devising new strategies of exclusiveness to eliminate certain ideas and people from the political process Although illiberalism has always been a temptation for American liberals lurking in the radical fringes of the Left it is today the dominant ideology of progressive liberal circles This makes it a new danger not only to the once venerable tradition of liberalism but to the American nation itself which needs a viable liberal tradition that pursues social and economic equality while respecting individual liberties

Material Science and Environmental Engineering Ping Chen,2015-12-30 *Material Science and Environmental Engineering* presents novel and fundamental advances in the fields of material science and environmental engineering Collecting the comprehensive and state of art in these fields the contributions provide a broad overview of the latest research results so that it will prove to be a valuable reference book to aca

COMPRAIL C. A. Brebbia,J. M. Mera,N. Tomii,2016-12-14 The papers presented in this volume aim to update the use of advanced systems promoting their general awareness throughout the management design manufacture and operation of railways and other emerging passenger freight and transit systems The book particularly emphasizes the use of computer systems in advanced railway engineering Topics covered include Communications and signalling Operations quality Energy supply and consumption Monitoring and maintenance Computer simulations Planning and policy Operational planning Safety and security Rescheduling Timetable planning

Proceedings of the 21st International Conference on Industrial Engineering and Engineering Management 2014 Ershi Qi,Jiang Shen,Runliang Dou,2015-01-06 Being the premier forum for the presentation of new advances and research results in the fields of Industrial Engineering IEEM 2014 aims to provide a high level international forum for experts scholars and entrepreneurs at home and abroad to present the recent advances new techniques and applications face and face to promote discussion and interaction among academics researchers and professionals to promote the developments and applications of the related theories and technologies in universities and enterprises and to establish business or research relations to find global partners for future collaboration in the field of Industrial Engineering All the goals of the international

conference are to fulfill the mission of the series conference which is to review exchange summarize and promote the latest achievements in the field of industrial engineering and engineering management over the past year and to propose prospects and vision for the further development Electronic Engineering and Information Science Dongxing Wang,2015-06-11 The International Conference of Electronic Engineering and Information Science 2015 ICEEIS 2015 was held on January 17 18 2015 Harbin China This proceedings volume assembles papers from various researchers engineers and educators engaged in the fields of electronic engineering and information science The papers in this proceedings Advances in Optical Science and Engineering Vasudevan Lakshminarayanan,Indrani Bhattacharya,2015-06-02 The Proceedings of First International Conference on Opto Electronics and Applied Optics 2014 IEM OPTRONIX 2014 presents the research contributions presented in the conference by researchers from both India and abroad Contributions from established scientists as well as students are included The book is organized to enable easy access to various topics of interest The first part includes the Keynote addresses by Phillip Russell Max Planck Institute of the Light Sciences Erlangen Germany and Lorenzo Pavesi University of Trento Italy The second part focuses on the Plenary Talks given by eminent scientists namely Azizur Rahman City University London London Bishnu Pal President The Optical Society of India Kamakhya Ghatak National Institute of Technology Agartala Kehar Singh Former Professor India Institute of Technology Delhi Mourad Zghal SUPCOM University of Carthage Tunisia Partha Roy Chaudhuri IIT Kharagpur S K Bhadra CSIR Central Glass and Ceramic Research Institute Kolkata Sanjib Chatterjee Raja Ramanna Centre for Advanced Technology Indore Takeo Sasaki Tokyo University Japan Lakshminarayan Hazra Emeritus Professor University of Calcutta Kolkata Shyam Akashe ITM University Gwalior and Vasudevan Lakshminarayanan University of Waterloo Canada The subsequent parts focus on topic wise contributory papers in Application of Solar Energy Diffraction Tomography E M Radiation Theory and Antenna Fibre Optics and Devices Photonics for Space Applications Micro Electronics and VLSI Nano Photonics Bio Photonics and Bio Medical Optics Non linear Phenomena and Chaos Optical and Digital Data and Image Processing Optical Communications and Networks Optical Design Opto Electronic Devices Opto Electronic Materials and Quantum Optics and Information Processing

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