

# NSW INDEPENDENT TRIAL EXAMS -2001

## PRELIMINARY EXAMINATION

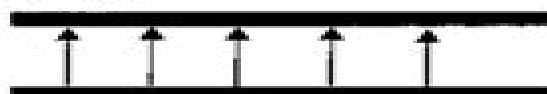
### PHYSICS 2 UNIT - SUGGESTED ANSWERS

#### PART A

1 D	2 B	3 C	4 A	5 B	6 C	7 B	8 D	9 C	10 A
11 A	12 B	13 D	14 C	15 A					

#### PART B

16. (a) For a wave crossing the boundary between two media, the refractive index is defined as the ratio of the velocity of the wave in the first medium to the velocity of the wave in the second.  $n_2 = v_1/v_2$
- (b) angle of incidence  $i = 90^\circ - \phi = 90^\circ - 60^\circ = 30^\circ$   
 angle of refraction  $r = 90^\circ - \theta = 19.5^\circ$   
 $n_2 = \frac{\sin 30^\circ}{\sin 19.5^\circ} = 1.50$
17. (a) Transverse waves consist of vibrations in the medium occurring at right angles to the direction of propagation of the wave, whereas in longitudinal waves the vibrations in the medium are parallel to the direction of propagation.
- (b) (i) Amplitude = 4 cm  
 (ii)  $v = \lambda/T = 2/8 = 1/4 \text{ m s}^{-1}$
- (c) Particles in a fluid medium are loosely bound – too little force exists between them to successfully pass on displacements of one particle to the next and so transverse waves do not propagate through a fluid medium.
18. (a) Any three of: radio, radar, infra red, light, ultraviolet, X-ray, gamma. The response should relate at least relative comparisons such as radar consists of waves of smaller frequency than infra red.
- (b) The frequency is unaltered as the wave moves from air w a ter. The speed increases in water.
- (c) Communication using reflections is effected in optic fibre cables in which transmission of a signal is a result of multiple internal reflections.
19. (a) the top plate must negative,  
 (b)



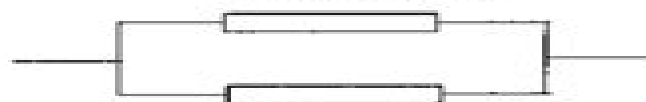
- (c)  $mg = Eq \Rightarrow E = mg/q = 1.02 \times 10^{-6} \times 9.8 / 0.5 \times 10^{-6} = 20 \text{ V m}^{-1}$
- (a)

series connection



One after the other, same current in each

parallel connection



Same PD across each, current passes through Each simultaneously

- (b) All lights are in parallel with each other as are all power points. Switches are in series with the device to be turned on or off. (Some older Christmas tree lights are connected in series as are elements on stoves and electric blankets at low settings.)
21. (a) Power point circuits have heavier gauge wiring than lighting circuits.  
 (b) Power point circuits have larger capacity fuses/circuit breakers (16 A/20 A) than lighting circuits (8 A/10 A)

# Nsw Independent Trial Exams Answers

**LP Steffe**



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**Excel Science Study Guide, Years 9-10** Will Marchmont, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions The Australian

Digest, 1987 Resources in Education, 1995 **The State Reports, New South Wales** New South Wales. Supreme Court, 1948 **Applying Machine Learning for Automated Classification of Biomedical Data in**

**Subject-Independent Settings** Thuy T. Pham, 2018-08-23 This book describes efforts to improve subject independent automated classification techniques using a better feature extraction method and a more efficient model of classification It evaluates three popular saliency criteria for feature selection showing that they share common limitations including time consuming and subjective manual de facto standard practice and that existing automated efforts have been predominantly used for subject dependent setting It then proposes a novel approach for anomaly detection demonstrating its effectiveness and accuracy for automated classification of biomedical data and arguing its applicability to a wider range of unsupervised machine learning applications in subject independent settings **The Right to Silence in Transnational Criminal**

**Proceedings** Fenella M. W. Billing, 2016-09-01 This book considers the effectiveness and fairness of using international cooperation to obtain confession evidence or evidence of a suspect or accused person's silence across borders This is a question of balance in limiting and protecting the right to silence The functioning of the applicable law in Denmark England and Wales and Australia is analysed in relation to investigative and trial measures such as police questioning administrative questioning powers covert surveillance and the use of silence as evidence of guilt On the national level this work examines the way in which domestic rules balance the right to silence in national criminal proceedings and whether investigative and trial rules produce continuity throughout the criminal proceedings as a whole From the transnational perspective comparative legal analysis is used to determine whether the national continuity may be disrupted to such an extent that cooperation in the gathering of confession evidence causes unfairness From the international perspective this research compares the right to silence under the ICCPR and the ECHR to identify the overall effect of cooperating under particular human rights frameworks on the question of balance **Butterworths Australian Legal Dictionary** Peter Edward Nygh, Peter Butt, 1997 Containing approximately 20 000 definitions the AUSTRALIAN LEGAL DICTIONARY is the first comprehensive Australian legal dictionary to be produced and is a landmark publication for the Australian legal profession As the name suggests the title has a strong Australian focus and includes many terms not found in American or English

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The University of New South Wales Law Journal ,1995      **Garden Magazine and Home Builder** ,1905      The Garden Magazine ,1905      **Garden & Home Builder** William Tyler Miller,1906      Dun's Review ,1913      **Applied Mechanics Reviews** ,1980      **Australian Film** Brian Reis,1997 Contains entries many with descriptive annotations on books book chapters periodical articles government reports academic theses films videos and audio recordings published in Australia and elsewhere from 1988 to the early and mid 1990s Works cited embrace all aspects of Australian film considered as art industry and sociological phenomenon except extremely technical aspects of filmmaking Categories include film archives and libraries production super 8mm film government and film history and criticism ethnographic film biographies and film criticism and reviews Includes author book title and film title indices Distributed by Books International Annotation copyrighted by Book News Inc Portland OR      *Industrial & Mining Standard* ,1905      **Popular Mechanics** ,1924-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      **Monthly Journal of Insurance Economics** ,1926      **Garden and the Gardeners' Chronicle** ,1906      Fossil Energy Update ,1984      **Cumulated Index Medicus** ,1998

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