

GRADE 12 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.7) on your folio paper. Example 1.8. D.

- 1.1 Which of the following pairs of compounds contains members of the same homologous series?
- A Ethanol and butane
 B Ethanol and ethanoic acid
 C Ethanol and propanal
 D Ethanol and propanone
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.



- A A constant number of different ions are released.
 B A new element is formed and the original quantities of the elements are conserved.
 C An ionic substance gains a positive charge and a negative charge.
 D An ionic substance is ionising.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces.
 B An object is free of contact forces and is in free fall.
 C An object is free of contact forces and is in free fall.
 D An object is free of contact forces and is in free fall.
- 1.4 The inertia of an object...
- A is the same for all objects.
 B is the same for all objects in the same state of motion.
 C is the same for all objects in the same state of motion.
 D is the same for all objects in the same state of motion.

- 1.5 An astronaut has a weight E_E on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (E_E) on the surface of the Earth?
- A r
 B $2r$
 C $4r$
 D $16r$

- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A The box is too heavy.
 B The box is too light.
 C The box is too smooth.
 D The box is too rough.

[14]

QUESTION 2

Three organic compounds (A, B and C) with different functional groups are given below.

A: 2,3-dimethyl-2-one



C: $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

- 2.1 Write down the functional group of compound C and name the cation to form such a variety of organic compounds. (2)
- 2.2 Define the term functional group. (2)
- 2.3 Write down the:
 2.3.1 IUPAC name of compound A. (2)
 2.3.2 IUPAC name of compound B. (2)

Physics Memorandum 2march Paper

R. Peierls



Physics Memorandum 2march Paper:

Nuclear Physics (1929-1952) R. Peierls, 2013-10-22 Nuclear Physics deals with Bohr's work on nuclear physics which began in the pre 1932 days with his thinking deeply but inconclusively about the seeming contradictions then presented by the evidence about the nucleus. In 1936 Bohr recognised and described the insights provided by neutron scattering experiments, the excitement of this new understanding and its extension and consolidation occupied much of the subsequent years. In 1939 he was again first in understanding the essential features of the newly discovered phenomenon of fission, applying successfully the point of view of nuclear reactions which he had developed over the past three years. Later in 1949-50 he was impressed by the success of the nuclear shell model which on the face of it seemed hard to reconcile with the picture of the closely interacting nucleons which he had pioneered in 1936. Bohr put much effort into clarifying this paradox.

NASA Technical Memorandum, 1981 **Nuclear physics (1929-1952), edited by Rudolf Peierls** Niels Bohr, 1986

Creating the Cold War University Rebecca S. Lowen, 1997-07-01 The cold war university is the academic component of the military industrial academic complex and its archetype according to Rebecca Lowen is Stanford University. Her book challenges the conventional wisdom that the post World War II multiversity was created by military patrons on the one hand and academic scientists on the other and points instead to the crucial role played by university administrators in making their universities dependent upon military foundation and industrial patronage. Contesting the view that the federal grant university originated with the outpouring of federal support for science after the war, Lowen shows how the Depression had put financial pressure on universities and pushed administrators to seek new modes of funding. She also details the ways that Stanford administrators transformed their institution to attract patronage. With the end of the cold war and the tightening of federal budgets, universities again face pressures not unlike those of the 1930s. Lowen's analysis of how the university became dependent on the State is essential reading for anyone concerned about the future of higher education in the post cold war era.

Physics, Uspekhi, 1994 **Unclear Physics** Målfrid Braut-Hegghammer, 2016-08 Many authoritarian leaders want nuclear weapons but few manage to acquire them. Autocrats seeking nuclear weapons fail in different ways and to varying degrees. Iraq almost managed it, Libya did not come close. In *Unclear Physics* Målfrid Braut-Hegghammer compares the two failed nuclear weapons programs, showing that state capacity played a crucial role in the trajectory and outcomes of both projects. Braut-Hegghammer draws on a rich set of new primary sources collected during years of research in archives, fieldwork across the Middle East and interviews with scientists and decision makers from both states. She gained access to documents and individuals that no other researcher has been able to consult. Her book tells the story of the Iraqi and Libyan programs from their origins in the late 1950s and 1960s until their dismantling. This book reveals contemporary perspectives from scientists and regime officials on the opportunities and challenges facing each project. Many of the findings challenge the conventional wisdom about clandestine weapons programs in closed authoritarian states and their prospects of success.

or failure Braut Hegghammer suggests that scholars and analysts ought to pay closer attention to how state capacity affects nuclear weapons programs in other authoritarian regimes both in terms of questioning the actual control these leaders have over their nuclear weapons programs and the capability of their scientists to solve complex technical challenges

Collected Works Niels Henrik David Bohr, 1986 **AIAA 24th Thermophysics Conference**, 1989 *Winning the War* John B. Alexander, 2007-04-01 Twenty second century historians will note that a new World War began on 9 11 2001 In reality it began much earlier Competing value systems and the lust for natural resources will precipitate an inevitable clash of civilizations Currently we face elusive foes who play by other rules and in fact we are already engaged in brutal truly asymmetric conflict with varied forms of fighting terrorism is but an isolated part The increasing number of polymorphic hostilities requires revolutionary and unconventional responses Special operations are the norm Nanoscale biological and digital technologies have transformed how we fight future wars Tactical lasers that zap pinpoint targets at twenty kilometers are being developed as is the millimeter wave Active Denial System that causes intense pain to those exposed The Mother of all Bombs has been dropped as have thermobaric weapons that destroy caves and bunkers Robots roam the battlefield while exotic sensors catalogue nearly every facet of our lives Paralyzing electrical shock weapons are in the hands of police Even phasers on stun are closer than you think *Winning the War* details the technologies and concepts necessary to ultimately determine the outcome of this global conflict Via realistic scenarios from recovering tourists kidnapped by terrorists to bringing down drug cartels in the Amazon and even preventing Armageddon in the Middle East *Winning the War* provides an insider's view into how these futuristic weapons will be used and into the complexities of modern warfare Bold and controversial measures are prescribed including the essential nature of absolute domination of space *Winning the War* makes clear that drastic and innovative actions will be necessary to ensure our national survival **Drawing Futures** Bob Sheil, Frédéric Migayrou, Luke Pearson, Laura Allen, 2016-11-11 *Drawing Futures* brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation *Drawing Futures* will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie *Drawing Futures* focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how

drawing is changing in relation to new technologies for the production and dissemination of ideas

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