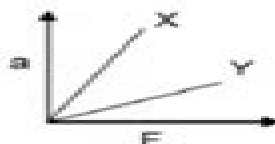


## GRADE 11 PHYSICAL SCIENCES MARCH TEST

### 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 (1.1-1.6) on your folio paper. Example 1.7. D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A X has a greater mass.
  - B The bodies have equal mass.
  - C Y has a greater mass.
  - D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
- A An object moving with constant acceleration.
  - B When the only force acting on the object is gravitational acceleration.
  - C An object that undergoes equal displacements every second.
  - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object moving at constant velocity upwards from the ground.
  - B An object moving at constant velocity downwards from the ground.
  - C An object that is accelerated upwards away from the ground by a constant applied force.
  - D An object accelerates downwards towards the Earth with an acceleration of  $9.8\text{m}\cdot\text{s}^{-2}$ .
- 1.4 The inertia of an object ...
- A is greater if its mass is smaller.
  - B increases as the applied force on the object increases.
  - C is the resistance to any change in its state of motion.
  - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight  $F_g$  on Earth. What distance, in terms of the radius of

# Physical Science March Common Test 2014

## Memorandum

**ML Morrison**



## **Physical Science March Common Test 2014 Memorandum:**

**Professional Journal of the United States Army**, 2015     The Making of Environmental Law Richard J.

Lazarus, 2023-02-15 An updated and passionate second edition of a foundational book How did environmental law first emerge in the United States Why has it evolved in the ways that it has And what are the unique challenges inherent to environmental lawmaking in general and in the United States in particular Since its first edition The Making of Environmental Law has been foundational to our understanding of these questions For the second edition Richard J Lazarus returns to his landmark book and takes stock of developments over the last two decades Drawing on many years of experience on the frontlines of legal and policy battles Lazarus provides a theoretical overview of the challenges that environmental protection poses for lawmaking related to both the distinctive features of US lawmaking institutions and the spatial and temporal dimensions of ecological change The book explains why environmental law emerged in the manner and form that it did in the 1970s and traces how it developed over sequent decades through key laws and controversies New chapters composing more than half of the second edition examine a host of recent developments These include how Congress dropped out of environmental lawmaking in the early twenty first century the shifting role of the judiciary long overdue efforts to provide environmental justice to disadvantaged communities and the destabilization of environmental law that has resulted from the election of Presidents with dramatically clashing environmental policies As the nation's partisan divide has grown deeper and the challenge of climate change has dramatically raised the perceived stakes for opposing interests environmental law is facing its greatest challenges yet This book is essential reading for understanding where we have been and what challenges and opportunities lie ahead     Plutonium Frank von Hippel, Masafumi Takubo, Jungmin

Kang, 2019-12-23 This book provides a readable and thought provoking analysis of the issues surrounding nuclear fuel reprocessing and fast neutron reactors including discussion of resources economics radiological risk and resistance to nuclear proliferation It describes the history and science behind reprocessing and gives an overview of the status of reprocessing programmes around the world It concludes that such programs should be discontinued While nuclear power is seen by many as the only realistic solution to the carbon emission problem some national nuclear establishments have been pursuing development and deployment of sodium cooled plutonium breeder reactors and plutonium recycling Its proponents argue that this system would offer significant advantages relative to current light water reactor technology in terms of greater uranium utilization efficiency and that separating out the long lived plutonium and other transuranics from spent fuel and fissioning them in fast reactors would greatly reduce the duration of the toxicity of radioactive waste However the history of efforts to deploy this system commercially in a number of countries over the last six decades has been one of economic and technical failure and in some cases was used to mask clandestine nuclear weapon development programs Covering topics of significant public interest including nuclear safety fuel storage environmental impact and the spectre of

nuclear terrorism this book presents a comprehensive analysis of the issue for nuclear engineers policy analysts government officials and the general public Frank von Hippel Jungmin Kang and Masafumi Takubo three internationally renowned nuclear experts have done a valuable service to the global community in putting together this book which both historically and comprehensively covers the plutonium age as we know it today They articulate in a succinct and clear manner their views on the dangers of a plutonium economy and advocate a ban on the separation of plutonium for use in the civilian fuel cycle in view of the high proliferation and nuclear security risks and lack of economic justification Mohamed ElBaradei Director General International Atomic Energy Agency 1997 2009 Nobel Peace Prize 2005 The 1960s dream of a plutonium economy has not delivered abundant low cost energy but instead has left the world a radioactive legacy of nuclear weapons proliferation and the real potential for nuclear terrorism Kang Takubo and von Hippel explain with power and clarity what can be done to reduce these dangers The governments of the remaining countries whose nuclear research and development establishments are still pursuing the plutonium dream should pay attention Senator Edward Markey a leader in the US nuclear disarmament movement as a member of Congress since 1976 The authors have done an invaluable service by putting together in one place the most coherent analysis of the risks associated with plutonium and the most compelling argument for ending the practice of separating plutonium from spent fuel for any purpose They have given us an easily accessible history of the evolution of thinking about the nuclear fuel cycle the current realities of nuclear power around the world and arguably most important a clear alternative path to deal with the spent fuel arising from nuclear reactors for decades to centuries to come Robert Gallucci Chief US negotiator with North Korea 1994 Dean Georgetown University School of Foreign Service 1996 2009 President MacArthur Foundation 2009 2014      **Slick Policy** Teresa Sabol Spezio, 2018-05-11 In January 1969 the blowout on an offshore oil platform off the coast of Santa Barbara California and the resulting oil spill proved to be a transformative event in pollution control and the nascent environmental activism movement It accelerated the advancement of federal government policies and would change the way the federal government managed environmental pollution Over the next three years Congress worked to pass laws such as the National Environmental Policy Act and the Clean Water Act and revolutionized the way that the United States dealt with environmental pollution At the same time scientists developed methods to detect chemical pollution that had been discharged into rivers and streams by industrial facilities Slick Policy presents an original and in depth history of the 1969 Santa Barbara spill Teresa Sabol Spezio provides a background of water pollution control government oversight of federally funded projects and chemical detection methods in place prior to the spill She then shows how scientists and politicians used public outrage over the spill to implement wide ranging changes to federal environmental and science policy and demonstrates the advancements to offshore oil drilling pollution technology and water protection law that resulted from these actions      Scientific and Technical Aerospace Reports ,1970      **Military Review** ,2015      Women's Gynecologic Health Kerri Durnell Schuiling, Frances E.

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