

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 gives up electrons to form a metal.
 D An ionic compound is made by combining an acid and an alkali.
- 1.3 Which of the statements below best describes Weightlessness?
- A An object is free of contact forces and is in free fall.
 B An object is moving in a circle at a constant speed but is not accelerating.
 C An object is in a state of free fall where the only force acting on it is the force of gravity.
 D An object is in a state of free fall where the only force acting on it is the force of gravity.
- 1.4 The inertia of an object...
- A is measured by its mass and weight.
 B is the resistance to applied forces in the opposite direction.
 C is the resistance to acceleration in the direction of motion.
 D increases as the frictional force on the object increases.

- 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 Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional force is less than 100N.
 D None of the above.
- 1.7 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A Frictional force is zero.
 B Frictional force is more than 100N.
 C Frictional force is less than 100N.
 D None of the above.

[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 which is present in 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)

Memorandum 2february March Paper Physical Science

JR Anderson



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From Medical Chemistry to Biochemistry Robert E. Kohler, 1982-05-31 This penetrating case study of institution building and entrepreneurship in science shows how a minor medical speciality evolved into a large and powerful academic discipline Drawing extensively on little used archival sources the author analyses in detail how biomedical science became a central part of medical training and practice The book shows how biochemistry was defined as a distinct discipline by the programmatic vision of individual biochemists and of patrons and competitors in related disciplines It shows how discipline builders used research programmes as strategies that they adapted to the opportunities offered by changing educational markets and national medical reform movements in the United States Britain and Germany The author argues that the priorities and styles of various departments and schools of biochemistry reflect systematic social relationships between that discipline and biology chemistry and medicine Science is shaped by its service roles in particular local contexts This is the central theme The author's view of the political economy of modern science will be of interest to historians and social scientists scientific and medical practitioners and anyone interested in the ecology of knowledge in scientific institutions and professions

Crew Size and Maritime Safety Division on Engineering and Physical Sciences, Commission on Engineering and Technical Systems, Marine Board, 1991-02-01 U S oceangoing vessels have half the crew size of 30 years ago thanks to automation and mechanization in the shipping industry But are reductions in crew size increasing the risk of vessel accidents Crew Size and Maritime Safety explores how we can minimize risk without hindering technology presenting the most thorough analysis available of key issues such as domestic versus foreign manning practices and safety performance effect of crew size on crew fatigue level of training and ship maintenance and modernizing the U S Coast Guard approach to crew size regulation The volume features a trend analysis of 20 years of maritime safety data analyzing U S and international laws and treaties concerning ship manning and making recommendations for improvements In addition it includes a model for setting optimum crew levels based on systems engineering and tested with actual ships

Keeping the U.S. Computer Industry Competitive National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Computer Science and Telecommunications Board, 1992-02-01 Systems integration the enterprise wide integration of computer applications offers an enormous opportunity for U S firms to capitalize on their strengths in such areas as complex software networking and management In this book industry leaders university researchers and government policymakers discuss what systems integration is its importance and prospects for growth why it is expected to define the characteristics of computerization for decades to come and why the United States is perceived to have a strong competitive advantage

Parliamentary Papers Great Britain. Parliament. House of Commons, 1983 The Pontecorvo Affair Simone Turchetti, 2012-01-27 In the fall of 1950 newspapers around the world reported that the Italian born nuclear physicist Bruno Pontecorvo and his family had mysteriously disappeared while returning to Britain from a holiday trip Because Pontecorvo was known to be an expert

working for the UK Atomic Energy Research Establishment this raised immediate concern for the safety of atomic secrets especially when it became known in the following months that he had defected to the Soviet Union Was Pontecorvo a spy Did he know and pass sensitive information about the bomb to Soviet experts At the time nuclear scientists security personnel Western government officials and journalists assessed the case but their efforts were inconclusive and speculations quickly turned to silence In the years since some have downplayed Pontecorvo s knowledge of atomic weaponry while others have claimed him as part of a spy ring that infiltrated the Manhattan Project The Pontecorvo Affair draws from newly disclosed sources to challenge previous attempts to solve the case offering a balanced and well documented account of Pontecorvo his activities and his possible motivations for defecting Along the way Simone Turchetti reconsiders the place of nuclear physics and nuclear physicists in the twentieth century and reveals that as the discipline s promise of military and industrial uses came to the fore so did the enforcement of new secrecy provisions on the few experts in the world specializing in its application

Memorandum ,1961 **Memorandum** Rand Corporation,1965 **Research Memorandum** ,1947
Astronautical Sciences Review ,1961 REIC Memorandum Battelle Memorial Institute. Radiation Effects Information Center,1961

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