

#### MERCY JUNIOR COLLEGE Grade 11 Physical Science Midterm Exam

NAME:	
YEAR LEVEL & SECTION:	
TEACHER'S NAME:	
PROCTOR'S NAME:	

I. MULTIPLE CHOICE

INSTRUCTION: Encircle the letter of the correct answer. (1 POINT EACH)

It is a subatomic particle, symbol e- or

β-, with a negative elementary electric charge.

- A. Meutinon
- 8. Electron
- C. Proton
- D. Atom
- It is the smallest constituent unit of ordinary matter that has the properties of a chemical element.
  - A. Neutron
  - B. Electron
  - C. Proton
  - D. Atom
- It is a subatomic particle, symbol p or p+, with a positive electric charge of +1e elementary charge and mass slightly less than that of a neutron.
  - A. Neutron
  - Electron
  - C. Protom
  - D. Atom.
- It is a subatomic particle, symbol n or nO, with no net electric charge and a mass slightly larger than that of a proton.
  - A. Neutron
  - 8. Electron
  - C. Proton
  - D. Atom.
- 5. What type of nuclear reaction is this?



- A. Alpha Decay
- B. Beta Decay
- C. Gamma Ray
- D. No nuclear reaction

- It is a type of radioactive decay in which an atomic nucleus emits an alpha particle and thereby transforms or 'decays' into an atom with a mass number that is reduced by four and an atomic number that is reduced by two
  - A. Alpha Decay
  - B. Beta Decay
  - C. Gamma Ray
  - D. Radiation
- It is a type of radioactive decay in which a beta ray (fast energetic electron or positron) and a neutrino are emitted from an atomic nucleus.
  - A. Alpha Decay
  - B. Beta Decay
  - C. Gamma Ray
  - D. Radiation
- 8. What type of nuclear reaction is this?

$$30 \text{ Sr} \longrightarrow 30 \text{ V} + .9e$$
 $230 \text{ Np} \longrightarrow 232 \text{ Pu} + .9e$ 
 $247 \text{ Am} \longrightarrow 247 \text{ Cm} + .9e$ 
 $35 \text{ Br} \longrightarrow 36 \text{ Kr} + .9e$ 
 $35 \text{ Br} \longrightarrow 36 \text{ Kr} + .9e$ 
 $32 \text{ Tc} \longrightarrow 34 \text{ Ru} + .9e$ 

- A. Alpha Decay
- B. Beta Decay
- C. Gamma Ray
- D. No nuclear reaction
- In atomic physics and quantum chemistry, the electron configuration is the distribution of electrons of an atom or molecule in atomic or molecular orbitals.
  - A. Electron Configuration
  - B. Periodic Table of Elements
  - C. Orbital Models
  - D. Emergy Levels
- 10. What type of nuclear reaction is this?

$$^{235}_{92}U \rightarrow {}^{4}_{2}He + {}^{231}_{99}Th$$

- A. Alpha Decay
- B. Beta Decay
- C. Gamma Ray
- D. No nuclear reaction

# **Physical Science 2june Exam Paper 1**

**Léo Pomar** 

**Physical Science 2june Exam Paper 1:** 

Unveiling the Power of Verbal Art: An Emotional Sojourn through Physical Science 2june Exam Paper 1

In a global inundated with displays and the cacophony of immediate communication, the profound energy and mental resonance of verbal beauty often disappear into obscurity, eclipsed by the regular assault of sound and distractions. However, set within the lyrical pages of **Physical Science 2june Exam Paper 1**, a captivating work of fictional splendor that pulses with fresh feelings, lies an unique journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this exciting opus guides visitors on a psychological odyssey, lightly exposing the latent potential and profound affect stuck within the delicate web of language. Within the heart-wrenching expanse with this evocative evaluation, we can embark upon an introspective exploration of the book is main subjects, dissect their fascinating writing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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