

#### 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. Newtron
- 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
  - 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?

$$30 \text{ Sr}$$
 →  $30 \text{ V}$  +  $9 \text{ e}$ 
 $230 \text{ Np}$  →  $230 \text{ Pu}$  +  $9 \text{ e}$ 
 $247 \text{ Cm}$  +  $9 \text{ e}$ 
 $367 \text{ F}$  →  $367 \text{ Cm}$  +  $9 \text{ e}$ 
 $367 \text{ F}$  →  $367 \text{ Cm}$  +  $9 \text{ e}$ 
 $367 \text{ Cm}$  +

- 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?

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

# **Grade 11 Exam Papers Physical Science**

**RJ Alexander** 

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