

#### 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

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SJ Ball

Physical Science Paper 2june:

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