

- (c) An atomic nucleus A is composed of 84 protons and 128 neutrons.
  - (i) The nucleus A emits an alpha particle and is transformed into nucleus B. What is the composition of nucleus B?
  - (ii) The nucleus B emits a beta particle and is transformed into a nucleus C. What is the composition of nucleus C?
  - (iii) Does the composition of nucleus C change if it emits gamma radiations?

#### Examiners' Comments

- (a) Most candidates failed to understand that the thermionic emission is due to the heat energy being imparted to the metallic surface. In place of an electron volt candidates wrote joule.
- (b) Many candidates drew incorrect diagrams with either the radiations being labelled incorrectly or the deflection shown incorrectly.
- (c) Most candidates did not understand the changes coming in with the emission of an alpha particle or a beta particle. Many failed to write the composition of the nucleus or explain appropriately the number of protons and neutrons present in the nucleus after the emission with a few unable to understand the effect of Gamma emissions.

#### Suggestions for teachers

 Explain the difference between thermionic and electronic emission.

[3]

- The unit of work function and its relation with the S.I unit of the physical quantity which it measures can be explained at this stage.
- Comparative property of radioactive radiations in an electric field should be discussed during classroom teaching.
- Stress must also be laid to teach the atomic structure in the class so as to make it clearer.

#### MARKING SCHEME

#### Question 10.

- (a) (i) Emission of free electrons from a metal surface when heat energy is imparted to it is called the thermionic emission.
  - (ii) Electron Volt.
- (b) (i) Deflection of Alpha and Beta shown correctly, Alpha deflection is less than beta Path of Gamma.
  - (ii) Use of lead lined aprons/ Lead gloves / long handle lead tongs/ radioactive substance should be kept in a thick walled lead container (Any two)
- (c) (i) <sub>82</sub>B <sup>208</sup> or 82 protons and 126 neutrons
  - (ii) x<sub>2</sub>C <sup>208</sup> or 83 protons and 125 neutrons
  - (iiii) No.

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