

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

[3]

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.
- 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) ${}_{82}\text{B}^{208}$ or 82 protons and 126 neutrons
- (ii) ${}_{83}\text{C}^{208}$ or 83 protons and 125 neutrons
- (iii) No.

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