(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?   [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) $_{82}B^{208}$ or 82 protons and 126 neutrons

   (ii) $_{83}C^{208}$ or 83 protons and 125 neutrons

   (iii) No.

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