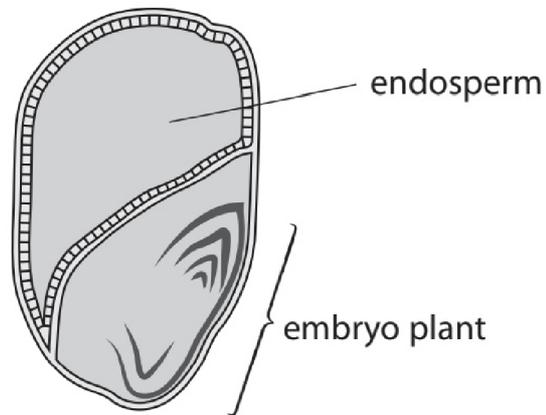


2 Maize grains are formed after the transfer of pollen and the fusion of nuclei.

The diagram below shows the structure of a maize grain.



(a) Describe the role of the pollen tube nucleus.

(2)

(b) The embryo plant results from the fusion of the male gamete and the female gamete.

Put a cross in the box next to the description of the nucleus of the male gamete and the nucleus of the female gamete.

(1)

- A** both nuclei are diploid
- B** both nuclei are haploid
- C** the male nucleus is diploid and the female nucleus is haploid
- D** the male nucleus is haploid and the female nucleus is diploid