Question Number	Answer	Additional guidance	Mark
3(a)	A description that includes five from the following points: • (pollen) tube grows down (style) to {ovary / ovule / egg cell / micropyle} • (by releasing) {digestive / hydrolytic} enzymes (1) • the generative nucleus {divides / undergoes mitosis} • to form two {male / haploid} nuclei (1) • one {male / haploid} nucleus fertilises the egg cell (to form the zygote) (1) • one {male / haploid} nucleus fertilises the (two) polar nuclei to form the endosperm (nucleus) (1)	{Male / haploid} only needs to be stated once and then will apply for subsequent mp piece together mp1 Accept pollen tube transports {generative nucleus / male nuclei} down the style Accept male gamete / sperm nucleus Accept male gamete / sperm nucleus Accept female {nucleus / gamete} for egg cell Accept male gamete / sperm nucleus ignore polar nucleus (singular)	**(5)**

Question Number	Answer	Additional guidance	Mark
3(b)	An explanation that includes the following points: • each male nucleus and egg cell nucleus (from silver trumpet trees) is genetically different (from each other) / (each ovule) may have been fertilised by {pollen / gamete} from (many) different trees (1) • due to crossing over of {alleles / DNA} (between chromatids) / mutation (1) • due to {independent / random} assortment (of chromosomes) (1) • in meiosis (1)	accept each male and female gamete is genetically different (from each other) accept description of crossing over forming {recombinant chromatids/ different combinations of alleles}	**(4)**