0 1 1	Plants can produce offspring (new plants) by sexual reproduction. Give the main points about offspring produced by sexual reproduction [3 marks] The joining (fusion) of male and female gametes or egg and sperm or egg and pollen grains. [1] Two parents required / involved. [1] Genetic material / DNA / chromosomes are mixed. [1] Leads to variety or variation in the offspring. [1] Spider plants can reproduce asexually. Give the advantages of spider plants being able to reproduce asexually. Give the advantages of spider plants being able to reproduce asexually. [1] Reproduce quickly [1] Only one parent needed [1]
0 1 . 3	Explain why the malarial parasite, <i>Plasmodium</i> , reproduces sexually in a mosquito and asexually in a human [4 marks] any 2 points for each type of reproduction: mosquito moves from person to person [1] so will have collected variety of parasites/ <i>Plasmodium</i> (from these people) [1] varied gametes fuse to produce varied offspring/parasite [1] more chance of having resistance to (anti-malarial) medicines/drugs [1] rapid growth in humans [1] means more parasite collected at mosquitos next feed [1]
0 1 . 4	Fungi have a tendency to reproduce asexually most of the time. However, there are situations where some fungi can also reproduce sexually. Describe how this occurs and explain why this occurs [4 marks] describe: fungal spores are haploid/n [1] these germinate into hyphae which are haploid/n [1] when 2 hyphae meet [1] they form a diploid cell [1] explain: increased variation in genes [1] means fungi more likely to survive changes (in environment) [1]