



**Figure 11.6** The main steps in the SCM search algorithm. (a) Initial population: genotypes generated using PRNG; (b) initial population: phenotypes synthesised from the genotypes—fittest phenotypes (as selected by the witness) circled in red; (c) cloning (multiply): genotype corresponding to fittest phenotype cloned nine times; (d) mutation: random mutations on eight of the nine clones (the stallion remains unaltered, although its position in the new generation is randomised); (e) new generation: based on mutated genetic material from selected face.