

11 Immunity – Part 1 — Answers

Answers

Work through these after trying the questions yourself.

11.1 Phagocytosis.

11.2 engulf → digest → display antigen.

11.3 A molecule (usually a protein) on a cell surface that the immune system can recognise.

11.4 A self antigen is one of the body's own markers, which the immune system ignores; a non-self antigen is foreign (e.g. on a pathogen) and triggers an immune response.

11.5 It is Y-shaped; the two tips (the variable regions / antigen-binding sites) bind the antigen.

11.6 Its binding site has a specific shape that is complementary to (fits) only one antigen.

11.7 The donor organ's cells carry *non-self* antigens — markers different from the patient's own. The immune system recognises these as foreign and attacks the organ, which is what “rejection” means.