

Shaped head containing acrosome (with enzymes)

Haploid nucleus

Tail for movement

Explain why a sperm cell has an undulipodium (tail) - *CORRECT ANSWERS* -To allow the sperm to move to the egg

Explain why sperm cells contain large numbers of mitochondria - *CORRECT ANSWERS* -To produce the large amounts of energy needed for movement

Explain why sperm cells have a shaped head - *CORRECT ANSWERS* -To push through the protective layer of the egg cell

Explain why sperm cells contain acrosome in the head - *CORRECT ANSWERS* -To digest the zona pellucida to allow entry into the egg cell

Explain why sperm cells have a haploid nucleus - *CORRECT ANSWERS* -Contains half the genetic material.

Describe the adaptations of egg cells - *CORRECT ANSWERS* -Contains a haploid nucleus

Protective outer layer (zona pellucida)

Corona radiata

Explain why egg cells have a haploid nucleus - *CORRECT ANSWERS* -Contains half the genetic material

How do goblet cells and ciliated cells work together? - *CORRECT ANSWERS* - Goblet cells produce mucus that sticks to pathogens, whilst cilia 'sweep' away the mucus containing the pathogens

How does smoking affect the alveoli? - *CORRECT ANSWERS* - Reduces the elasticity so pockets of air form that cannot be expelled

Where is endothelial tissue found? - *CORRECT ANSWERS* - Lining the inside of blood vessels, lymphatic vessels and the heart

Describe the structure of endothelial tissue - *CORRECT ANSWERS* - A layer of flattened cells, one layer thick

What is atherosclerosis? - *CORRECT ANSWERS* - The process of white blood cells encouraging the deposition of fatty substances (cholesterol) below the endothelial lining

What factors can increase the likelihood of atherosclerosis? - *CORRECT ANSWERS* - Smoking

High blood pressure

What conditions can atherosclerosis cause? - *CORRECT ANSWERS* - Angina

TIA (mini strokes)

Heart attack

Aneurysm and haemorrhage

Name the three types of muscle tissue - *CORRECT ANSWERS* - Skeletal