

13.1

Summary questions

- 1a Water potential in cells (1) b Blood pH (1) or any other sensible suggestions
- 2 Cell releases a chemical (1); which has an effect on a target cell (1).
3. Any six from: Organism needs to respond to internal/external changes for survival (1); occurs by electrical impulses/nervous system in animals (1); chemicals/hormones/hormonal system in plants/animals (1); / named example of hormone or chemical (1); different cells rely on others for materials/removal of waste (1); named example e.g., glucose/oxygen (1); different organs work together to ensure homeostasis (1); named example e.g., brain and skin in temperature control (1); cells communicate through cell signalling (1); named example of where this occurs (1).

13.2

Multiple sclerosis

- 1 0.15% (1)
- 2 A disease causing the body's immune system to attack its own cells (1)
- 3 Speeds up transmission of nerve impulses (1)
- 4 Light energy detected by sensory receptor/rod/cone cell in eye (1); impulse does not reach CNS/brain or impulse received too slowly (1); due to sensory neurone axon being broken down (1).

Summary questions

- 1 Sensory neurones transmit impulses to the CNS / from receptor, motor neurones transmit impulses away from the CNS / to an effector (1).
- 2 One mark for correctly drawn and labelled structure: dendrites – drawn as multiple short protrusions from cell body (1); cell body containing a nucleus (1); long single axon (1); myelin sheath with nodes of Ranvier (1).
3. Any four from: Axon of a myelinated neurone is covered in myelin (1); myelin is an electrical insulator (1); the sheath is formed by Schwann cells growing around the axon several times (1); there are gaps in the myelin sheath known as nodes of Ranvier (1); electrical impulse moves in a series of 'jumps' from one node to the next/saltatory conduction (1); impulse transmitted much faster than along an unmyelinated axon (1).

13.3

Summary questions

- 1 Detect stimuli (1); convert energy into a nervous impulse (1)
- 2 Light energy is converted into a nervous impulse/action potential (1)
3. Any six from: When you touch the pin it exerts mechanical pressure on your skin (1); Pacinian corpuscle found within skin detects pressure (1); pressure changes shape of Pacinian corpuscle (1); stretch-mediated sodium channel in neuronal membrane stretches (1); channel widens (1); sodium ions diffuse into membrane (1); membrane is depolarised/generator potential created (1); generator potential creates an action potential (1); action potential transmitted along neurones to CNS/brain (1).

13.4

Measuring action potentials

- 1 Depolarisation/potential across membrane goes from negative to positive (1)
2. Any 4 from: At 5.5 ms, the inside of the membrane is negatively charged (–70 mV) with respect to the outside of the membrane (1); because there is a higher concentration of Na⁺/sodium ions outside the membrane (1); stimulus causes (voltage-gated) sodium ion channels to open (1); Na⁺ ions diffuse into the neurone (1); down concentration / electrochemical gradient (1); this increases the potential of the inside of the membrane / makes the inside of the membrane more positive (1) to +44 mV.
- 3 Time between action potentials = 5 ms (1)
Frequency = $1 \div \text{time} = 1 \div 0.005 = 1000 \text{ ms in 1 s, so } 1000 \div 5$ (1)
Frequency = 200 action potentials per second / 200 Hz (1)

Summary questions

- 1 The larger the stimulus the more frequent the nerve impulses/action potentials (1)

Nature Of Biology Book 1 Chapter 13 Answers

VM Jensen



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has a Master degree in Industrial Psychology from the University of Sydney Bachelor of Science degree with a double major in psychology from Australian National University and a major in Biology from RMIT Was awarded the Elizabeth and Martin Summit Prize in Psychology an annual award given to the most outstanding student in Psychology at Sydney University He has been teaching in a university for several years and was involved in politics for some time but voluntarily chose to pursue a different path because of the incompatible sets of values that are required against what he believed in He has a background of Buddhist and Confucian upbringing and was converted to being a follower of Jesus as a Catholic However he had been battling with what the churches taught and his knowledge and understanding in the fields of biology and psychology new discoveries of physical sciences in which he was trained against the background of his upbringing in a culture that was homogenous and has survived for more than 5000 years of history and his life experiences in the modern commercial materialistic world culture He believes in doing Gods work in whatever circumstances he was placed to be guided by the principles of what he believed Jesus has taught in establishing a consistent logical framework that is universal and more holistic the result of which is the writing of this book One of his greatest gifts is his ability to analyze things logically and he has been a good debater when he was at school He has thus put all his thoughts down gathered from his training life experiences and his wide exposure in the modern world environment to establish an overall consistent logical framework in understanding the meaning of life in the order of things and the role religion plays in assisting each individuals to achieve the universal objective of a salvation and the conflicts that are generated as a result of different derivatives of history and culture of the world

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