CELL BIOLOGY

ANSWERS & MARK SCHEMES

QUESTIONSHEET I

- (a) A = nucleus; B = ribosome(RER; C = (RER) vesicle; D = Golgi body; 4
- (b) (i) (nucleus) contains DNA which codes for the enzyme; DNA code is transcribed to messenger RNA;
 - (ii) mRNA attaches to ribosomes; code on mRNA translated into the polypeptide; 2
 - (iii) polypeptide is transported through cell to Golgi body; (allow 1 mark for 'package the enzyme')
 in vesicle of rough endoplasmic reticulum;
 - (iv) polypeptides in Golgi body combined/modified to form enzyme;
 carried in Golgi vesicles to cell surface;
 for secretion/exocytosis;

 max 2

OUESTIONSHEET 2

- (a) Labels: mitochondrion; microvilli/brash border; 2
- (b) microvilli/brush border increases surface area;
 for uptake of glucose/enables greater uptake of glucose/ref to larger amount of carrier protein present;

 2
 - mitochondria provide ATP;
 for active transport of glucose (into intercellular fluid);

 2

QUESTIONSHEET 3

- (a) (i) autonomic neurone would be non myelinated;
 - (ii) sensory neurone would have the cell body attached to the centre of the fibre;
- (b) (i) speed up impulse;
 by saltatory conduction;
 electrons/local currents jump from node to node;
 3
 - (ii) composed of polyribosomes; synthesise enzymes involved in transmitter production/recognition proteins for synapse formation; 3 eg. synthesis of acetylcholine/noradrenaline/any other correct transmitter substance;

TOTAL 8

TOTAL 12

TOTAL 6

Holt Modern Biology Cell Energy Answer Key

Annelies Wilder-Smith

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