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

Albert Towle

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Modern Biology James Howard Otto, Albert Towle, 1973 **Teacher's Guide to the Modern Biology Program** James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965 Modern Biology Towle, Albert Towle, 1991 Videodisc Correlata GD Modern Biology 99 Holt Rinehart & Winston, 1998-02 Modern Biology Albert Towle, 1989 Modern Biology, 1991 Albert Towle, 1989 Autophagy in Current Trends in Cellular Physiology and Pathology Nikolai Gorbunov, E. Marion Schneider, 2016-11-10 Autophagy in Current Trends in Cellular Physiology and Pathology is addressed to one of the fundamental molecular mechanisms autophagy evolutionarily adopted by cells for processing of unnecessary or malfunctioned constituents and shaping intracellular structures adjusting them to environmental conditions aging disease neoplasia and damages over their life period Particular attention is paid to autophagy mediated barrier processes of selective sequestration and recycling of impaired organelles and degradation of invading microorganisms that is the processes sustaining intrinsic resistance to stress tissue degeneration toxic exposures and infections The presented topics encompass personal experience and visions of the chapter contributors and the editors the book chapters include a broad analysis of Science: Experiment and discovery, 1965 General Biology Willis literature on biology of autophagy **Biology** .1998 Hugh Johnson, 1956 El-Hi Textbooks in Print ,1979 Final Environmental Statement [s on Proposed National Parks, Monuments, Wildlife Refuges, Etc.] Alaska: Chugach National Forest additions United States. Department of the Interior. Alaska Planning Group, 1974 The Chemical News and Journal of Physical Science, 1916 The Chemical News and **Journal of Industrial Science** ,1916 Chemical News and Journal of Physical Science William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1916 The Chemical News ,1916 Minnesota Journal of Education ,1964 American Book Publishing Record ,1973 Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office Library of Congress. Copyright Office,1963-07 Antiquarian Bookman, 1956

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