10(a)	*any **three** from :* 1 myelin **sheath** / Schwann cells, acts as an insulator / prevents movement of ions **;** 2 depolarisation / action potential, **only** occurs at the nodes **; I** impulses 3 action potentials jump from node to node / saltatory conduction **; I** impulses 4 long(er) local circuits **;** 5 AVP **;** e.g. wide axon diameter
10(b)	*any **four** from :* 1 ACh binds to receptors on <u>sarcolemma</u> **;** 2 (ligand-gated) Na^+ channels open **or** Na^+ enters, muscle cell / sarcoplasm **;** 3 <u>sarcolemma</u> depolarised **;** 4 depolarisation / action potential, spreads, to / down, T-tubules **;** 5 **voltage-gated** Ca^{2+} channels open **;** 6 Ca^{2+}, diffuse / move, out of sarcoplasmic reticulum (and bind to troponin) **;**
10(c)	*any **three** from :* 1 (decreased rate of respiration so), no / less, ATP produced **;** 2 no / less, Ca^{2+} pumped back into sarcoplasmic reticulum **;** 3 no / less, release of myosin heads from actin / cross bridges broken **or** no / less, hydrolysis of ATP by myosin head / return of myosin head to original position **;** AW 4 sarcomere, permanently contracted / cannot relax **;** **A** paralysis 5 slower sarcomere contraction / less sarcomere shortening / weaker power stroke **;**