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NEET NEURAL CONTROL AND COORDINATION — GENERATION AND CONDUCTION OF NERVE IMPULSE — PYQS

Max. Marks: 24 **Questions:** 6

Section A (MCQ) — 6 questions

Q.1 The most abundant intracellular cation is [NEET 2013]

(1) H^+ (2) K^+ (3) Na^+ (4) Ca^{++}.

Scan or tap for the full solution

Q.2 When a neuron is in resting state i.e., not conducting any impulse, the axonal membrane is [AIPMT 2011 (Prelims)]

(1) comparatively more permeable to Na^+ ions and nearly impermeable to K^+ ions

(2) equally permeable to both Na^+ and K^+ ions

(3) impermeable to both Na^+ and K^+ ions

(4) comparatively more permeable to K^+ ions and nearly impermeable to Na^+ ions.

Scan or tap for the full solution

Q.3 During the propagation of a nerve impulse, the action potential results from the movement of [AIPMT 2008]

(1) K^+ ions from intracellular fluid to extracellular fluid

(2) Na^+ ions from extracellular fluid to intracellular fluid

(3) K^+ ions from extracellular fluid to intracellular fluid

(4) Na^+ ions from intracellular fluid to extracellular fluid

Scan or tap for the full solution

Q.4 During the transmission of nerve impulse through a nerve fibre, the potential on the inner side of the plasma membrane has which type of electric change? [AIPMT 2007]

(1) First positive, then negative and continue to be negative

(2) First negative, then positive and continue to be positive

(3) First positive, then negative and again back to positive

(4) First negative, then positive and again back to negative

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Q.5 In the resting state of the neural membrane, diffusion due to concentration gradients, if allowed, would drive [AIPMT 2004]

(1) K^+ into the cell

(2) K^+ and Na^+ out of the cell

(3) Na^+ into the cell

(4) Na^+ out of the cell.

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Q.6 Depolarization of axolemma during nerve conduction takes place because of [AIPMT 2000]

(1) equal amount of Na^+ and K^+ move out across axolemma

(2) Na^+ move inside and K^+ move more outside

(3) more Na^+ outside

(4) none of these

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5	6					
Ans.	2	4	2	4	3	2					