



Other Requirements

Question Papers

PHS 225 (AUTONOMIC NERVOUS SYSTEM)

INSTRUCTION: **ANSWER QUESTION 1** AND ANY OTHER 2 QUESTIONS.

TIME ALLOWED: 45MINUTES

1. A soldier man in fierce battle with terrorist will have some physiological changes in his body functions. Using your knowledge in autonomic nervous system,

(a) Identify the division of autonomic nervous system that will be predominantly active.

(b) Mention specific changes that will occur in his

(i)Heart. (ii) Gastrointestinal tract (iii) Urinary bladder

(c) Describe the synthesis of the predominant neurotransmitter in the division identified in (a) above

2. (a) Classify sympathetic ganglia and mention their subgroups.

(b) Define the following

(i) Afferent Nerve (ii) Efferent Nerve (iii) Receptor (iv) Neurotransmitter

3. (A) Using the captions below, differentiate between sympathetic and parasympathetic nervous systems

(i) Segmental outflow (ii) Length of preganglionic fiber (iii) Length of post ganglionic fiber (iv) Post ganglionic neurotransmitter

(B) What is a ganglion

(C) Mention one parasympathetic effect on each of the following

(i) Pupils (ii) Bronchioles (iii) Male genitalia

4. (A) Classify autonomic receptors

(B) Using a flow diagram only, describe a reflex pathway.

(C) List 3 mechanisms for removal of norepinephrine from the synapse, after its release.

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