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FINAL EXAM DECEMBER 2016 NATIONAL BOARD OF EXAMINATIONS

PAPER – III

PHY/D/16/36/III

Time : 3 hours Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	Pa	thophysiology of Alzheimer's disease.	10
2.	a)	ompare and contrast the following: Tremors of cerebellar and basal ganglia lesion. Akinesia and rigidity of Parkinson's disease.	5+5
3.	Olfactory pathway and physiological basis of olfaction. 4+6		
4.	ŕ	Differentiate between the specific features of action potential recorded in nerve, skeletal muscle, smooth muscle and cardiac muscle.	6+4
	D)	Role of ions involved in them.	
5.		Photochemistry of vision. Physiological basis of night blindness.	6+4
6.	,	Neural substrate of speech. Pathophysiology of language disorders.	6+4
7.	b)	Define neurotransmitter. Site of synthesis, storage and mechanism of its removal. Give examples of excitatory and inhibitory neurotransmitter operating in central nervous system.	2+5+3
8.	b)	Physiological basis of genesis of receptor potential. Explain the phenomenon of receptor recruitment. Sensory coding.	5+3+2
9.	,	Give an account of the body's response to rotational acceleration and linear acceleration. Meniere disease.	(4+4)+2
10.		Functional anatomy of the blood brain barrier. Its functions and clinical implications.	5+5