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2016

## PHYSIOLOGY - PAPER-II

Time Allowed : 3 Hours

Full Marks: 200 number, only the questions attempted are in excess of the prescribed cribed number shall be valued and the remaining ones ignored.

Answers may be written either in <u>English</u> or in <u>Bengali</u> but all answers must be in one and the same language.

## GROUP-A

## Answer any six questions.

		questions.	
1.	a)	Define Wallerian degeneration.	
	b)	Describe the process of degeneration in peripheral	4
	c)	nervous tissue.	14
	۵,	Name the cells and their specific regions of involvement in the process of regeneration.	2
2.	a)	Define synaptic plasticity.	_
	b)	Explain the basis of hippocampal long term potentia-	2
	c)	What is long term depression.	4
3.	a)	Outline the Mechanisms of heat loss in mammals.	8
	b)	Discuss the process of non-shivering thermogenesis.	12
4.	a)	Briefly over view the Mechanism of ovulation.	10
	b)	Elaborate the role of various hormones in the regulation of human menstrual cycle.	10
5.	a)	Define accomodation.	2
	b)	Discuss the Mechanism underlying the phenomenon of accomodation.	8
	c)	Schematically illustrate the neural pathway of accomodation reflex.	10
6.	a)	Enlist the causes and symptoms of various diseases associated with adreno-cortical dysfunctions.	10
	ь)	Summarize the physiological actions of glucocorticoids.	10
7.	a)	Name the various gaseous air pollutants with their sources.	8
	ь)	Give an account of various occupational diseases	4
	c)	What are the preventive measures to reduce air pollution ?	8

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B	n m)	How to sur estimated &	4
	)a)	Now is BMI interpreted 7	8
	6)	What are the significances of BMI assessment.	8
		GROUP=B	
		Answer any four questions.	
9	. a)	Draw and describe the ultrastructure of nuro-muscula junction.	r
			8
	10)	Schematically mention the mechanism of neuro-muscula transmission.	r
		Cransming and Cons	12
10.	a)	Classify reflexes with examples.	10
	b)	What is reaction time 7	4
	e)	Outline the principle of reciprocal innervation.	6
11.	, a)	Discuss the morphological peculiarities and associat hormonal seretions of anterior pituitary.	ed 12
	b)	Review the physiological actions of growth hormone.	8
12.	a)	What is decibel ?	4
	b)	Define endocochlear potential.	4
	e)	Ilustrate with suitable diagram the mechanism of transmission of sound through the auditory apparatu	s.
			12
13.		Write short notes on any four of the following :-	
	a)	Neural basis of REM sleep.	
	b)	Safety challenges of mass immunization.	
	e)	Hypothy roidism.	
	a)	VO, max	
	e)	Health hazards of water pollution.	5x4
14.	a)	Draw a labeled diagram of vertical section of human skin. Mention the functions of skin.	5+5
	p)	Draw the histological structure of testis illustrating the various spermatogenic cells.	
		Mention the Secretory functions of Sertoli Cells.	7+3

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