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2019

## PHYSIOLOGY- PAPER-II

MSC(O)PY-II/19

Time Allowed- 3 Hours

Full Marks - 200

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be given either in English or in Bengali but all answers must be in one and same language.

#### GROUP - A

### Answer any six quest

	Answer any six questions :-	
1.	a) Discuss the origin, course, termination, functions of of Goll & Burdach.	tract
	b) Discuss the molecular basis of synaptic transmission.	10
2.	a) Discuss the excitation-contraction coupling of skelet muscle.	
	b) Draw, label, discuss the histological structure and functions of cerebellum.	10
3.	(a) Discuss the different types of GABA receptors and the mode of actions.	ir 10
	(b) Discuss the effects of lesion of upper and lower motor neurons.	10
4.	(a) Discuss the physiological basis of REM sleep.	10
	(b) Discuss with diagram the origin, course, termination auditory pathway.	of 10
5	(a) Draw, label and discuss the visual pathway.	10
	(b) Discuss the neurophysiology of learning and memory.	10
6.	(a) Draw, label and discuss the nervous pathway of taste sensation.	10
	(b) Draw, label and discuss the functions of vestibular apparatus and cochlea.	10
7.	(a) Discuss the body temperature regulation mechanism in human.	10
	(b) Discuss the physiological changes that occur in human in extreme hot and cold climate.	s 10
8.	Short notes (any <u>four</u> ) :-	
	(a) Webner Flechner Law	
	(b) Cerebro spinal fluid	
	(c) Electro retinogram (ERG)	
	(d) Argyll-Robertson Pupil (e) Triple response	
	f) Parkinson's disease.	5 x 4
		P.T.O.

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#### GROUP - B Answer any four questions :-

9.		Discuss the synthesis, storage and from pancreas.		10
	(b)	Discuss the metabolic basis of dis	betes mellitus.	10
10.	(a)	Discuss the structure and function	s of parathormone.	10
	(b)	Compare the structure-functions of	r estrogen and progeste	rone.
11.		Compare the active principles, fur and adrenal medulla.		
	(b)	Discuss the role of hormones in balactation.	reast development and i	n 10
12.	(a)	Discuss the role of hormones in p	regnancy.	10
	(b)	Discuss the peculiarities of foet	al circulation.	10
13.	(a)	Define static and dynamic work and involved in it.	d mention the muscles	10
	(b)	Discuss the detail the Harvard st PFI.	ep test to determine	10
14.		Discuss the major steps to contropollution.		10
	(b)	Discuss the major steps taken by	the Govt. of India to	10

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