Seat No:		EnrollmentNo:						
	PARUL UNIVERSITY							
FACULTY OF MEDICINE M.P.P.S. Eveningtion - October 2020								
	M.B.B.S Examination , October 2020 Code: 19100184 Name: Physiology Paper-II	Date: 30/10/2020 Time: 10.000 am to 1.00 pm Total Marks: 100						
2. Figure	ions: upt all questions from each section. es to the right indicate full marks. suitable assumptions wherever necessary.							
0.1	SECTION – A	2.10	(20)					
Q.1 a	Structured Essay question: (No choice) A 68-year-old man visits his physician's office complain	2x10 ning of trembling hands and	(20)					
	difficulty in walking. Neurologic examination: Resting tremor of the hands that a task. The patient's facial expressions were reduced. We difficulty taking the first step but then was able to walk small. What is the probable diagnosis (2) 2. What is the pathophysiology behind the symptoms (4) 3. List the functions of basal ganglia (4)	hen walking, the patient had						
b	A 53 year-old woman presents with complaints of fatigue, weight gain, and constipation. She states that her weight has gradually increased over the last year despite no change in her activity level or eating habits. She is diagnosed as suffering from myxedema. 1. What is myxedema and cretinism? Describe their characteristic features.(5) 2. Explain why early diagnosis and treatment of cretinism is vital? (2) 3. What is the role of hypothalamus and pituitary in regulating thyroid functions.(3)							
Q.2 1 2 3 4 5	Write short notes on: (Any Four out of Five) Lateral spinothalamic tracts Differentiate REM sleep from NREM sleep What is synapse? Describe synaptic transmission. Reticular formation. Hypothermia	4x5	(20)					
	SECTION – B							
Q.3 A	Explain briefly on: (any Three out of Four) A 55 yr old driver, consulted an ophthalmologist with comduring driving as well as reading, from the last few months presbyopia. 1. What is presbyopia?(1) 2. What type of lenses should be prescribed? (1) 3. Describe the accommodation reflex.(3)		(18)					
В	A young boy of 5 yrs, presented with a complaint of deafned discharge with fever and earache of the left ear, on and off as having chronic suppurative otitis media / inflammatory 1. What will be the type of hearing loss in this case?(1) 2. List the types of deafness? (1)	since 1 yr.He was diagnosed						
С	3. Describe any two functions of middle ear (3) A young woman aged 24 yrs, with a history of menorr	hagia is diagnosed as having						
	anovulatory cycles. 1. What do you mean by anovulatory cycles?(1) 2. Describe hormonal regulation of ovulation (3) 3. Name any three tests to indicate ovulation (2)		(12)					
Q.4 1 2 3 4	Write short notes on: (any Three out of Four) Myasthenia gravis Degeneration of peripheral nerve fibres. Photoreceptors. Describe different types of proteins in skeletal muscle .Give their fur	3x4	(12)					

$\boldsymbol{SECTION-C}$

Q.5	Wri	te short notes on :(Any Five out of Six)		5x5	(25)		
1.	Calc	eium homeostasis					
2.	Anti	diuretic hormone					
3.	Phys	siological actions of glucocorticoids					
	•	ctions of placenta					
5.	Test	osterone					
6.	Acro	omegaly and gigantism.					
Q.6		wer in MCQ		5x1	(5)		
		0 years old man, who is a diabetic since	5 yrs	s, was advised regular exercise to	` /		
1.	• ,						
		cise in people with diabetes					
	(a)	Reduction in triglyceride	(b)	Hypoglycemia			
	(c)	Increase in insulin sensitivity	(d)	Help controlling hypertension			
2.	Who	en an individual displays a deficit in t	the co				
	difficulties in recognizing spoken words and converting them into words, he has a						
	cond	dition called as		,			
	(a)	Wernicke s aphasia	(b)	Broca s aphasia			
	(c)	Beidecker aphasia	(d)	Warmick's aphasia			
3.	A M	Tale with problems of infertility was diagno	sed wi	th cryptorchidism. This is a			
		dition in which		• •			
	(a)	Male hormones are not reactive	(b)	Ovaries are removed			
	(c)	Sperms are not formed	(d)	Testis fails to descend in scrotal			
		•		sacs			
4.	The	mother of a young boy notices that he si	its clos	se to the TV when viewing it, and			
	brings books very close to his face while reading. After examination he was prescribed						
	use of spectacles with concave lens. What is the likely diagnosis?						
	(a)	Myopia	(b)	Hypermetropia			
	(c)	Astigmatism	(d)	Presbyopia			
5.	Bab	inski's reflex is present in all,except		• •			
	(a)	Upper motor neuron lesion	(b)	In healthy young adults			
	(c)	Infants	(d)	Sound deep sleep			