

R-3702

First Year M. B. B. S. Examination

June/July - 2018 Physiology : Paper - I

Time	2.30 Hours]	Total Marks : 50		
Instru	ctions: (1)			
નીચે દર Fillup	પેલ → નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Se	eat No. :		
Name	tricity the details of signs on your answer book. If the Examination:			
	TYEAR M. B. B. S.			
,	fithe Subject :)		
PHY	SIOLOGY : PAPER - I			
→ Subject	Code No.: 3 7 0 2 - Section No. (1, 2,) 1&2	Student's Signature		
(2) Dr	aw diagrams and flow charts wherever req	uired.		
	SECTION - I			
1 W	at is pacemaker? Discuss the origin of he	eart rate 8		
and	its conduction pathway.			
2 Wr	te notes on any three:	12		
(a)	Surfactant			
(b)	Vital capacity			
(c)	Effects of CO2 on control of respiration			
(d)	O2 dissociation curve			
3 Ехр	ain in brief any five : (in 1-2 sentences)	5		
(a)	Mechanism of aneamic hypoxia			
(b) Functional difference between lysosome and Peroxisome (c) Difference between Reticulocyte and RBC				
				(d) Physiological role of cytotoxic T cells (e) Abnomality in sickle cell aneamia
(f)	Erythroblatosis Fetalis			
R-3702]	1	[Contd		
		-		

SECTION - II

4	Wri	ite in brief on any 4:	8
	(a)	Disorders of large intestinal motility	0
	(b)	Functions of saliva	
	(c)	What is excitation-secretion coupling	
	(d)	Role of pancreas in protein digetion	
	(e)	Name any four Gastrointestinal hormones	
5	Sho	rt notes on any 3:	12
	(a)	T tubules	12
	(b)	Emptying of urinary bladder	
	(c)	Renin angiotensin system	
	(d)	Sarcomere	
6	Exp	lain in briefly following: (any 5)	5
	(a)	Importance of saltatory coduction	Ü
	(b)	Measurement of GFR	
	(c)	Jaundice	
	(d)	Tidal volume	
	(e)	Symport	
	(f)	Bowman's capsule.	
		-	

8



R-3703

First Year M. B. B. S. Examination

June / July - 2018

Physiology: Paper - II

Time : $2\frac{1}{2}$ Hours]	[Total Marks : 50
Instructions:	
(1)	
નીચે દર્શાવેલ → નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of → signs on your answer book. Name of the Examination: F. Y. M. B. B. S. Name of the Subject: PHYSIOLOGY: PAPER - 2 Subject Code No.: 3 7 0 3 ◆ Section No. (1, 2,): 10	
(2) Draw diagrams and flow charts wherev	ver required.
SECTION - I	
1 Give an account on Physiological anatorits connections and functions.	my of Cerebellum, 8
2 Write notes on Any Three:	12
(a) Structure and functions of testis	
(b) Folliculogenesis	
(c) Regulation of secretion of Gonadot	ropins
(d) Methods to detect ovulation time	
,,	
3 Explain in brief in 1-2 sentences (Any	Five) : 5
(a) Function of mineralocorticoid	
(b) Name photo receptors	
(c) Types of sleep	
R-3703] 1	[Contd

	(e)	Clinical importance of pigmented epithelial layer		
	(f)	Hormones regulating calcium ion concentration in blood		
		SECTION - II		
4	Write notes on Any Four:			
	(a)	Explain positive feedback mechanism.		
	(b)	Name the neuronal cells in layers of retina		
	(c)	Draw and label organ of corti.		
	(d)	Importance of optic chiasm in vision		
	(e)	Draw and label taste receptor.		
5	Sho	Short notes on Any Three:		
	(a)	Synthesis of Thyroid hormone		
	(b)	Physiological actions of glucocorticoid		
	(c)	Diabetes mellitus		
	(d)	Mechanism of action of hormones of posterior pituitary gland		
6	Ans	wer in briefly for Any Five :	5	
	(a)	Reverberation (property of synapse)		
	(b)	Function of Acrosome (of a mature sperm)		
	(c)	Name Pain Pathways		
	(d)	Function of CSF		
	(e)	Types of autonomic receptors		
	(f)	Types of Aphasia		

(d) What is presbyopia

2

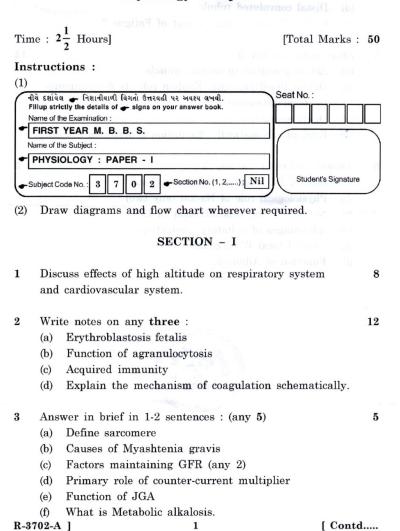


R-3702-A

First Year M. B. B. S. Examination

November / December - 2018

Physiology: Paper - I



SECTION - II

4	wrı	ite notes in short on any 4:	8
	(a)	Function of bile	
	(b)	Role of HCL in Stomach	
	(c)	Secretin agology of	
	(d)	Distal convoluted tubule	
	(e)	Define Fatigue. What is seat of Fatigue?	
5	Short notes on any 3:		
	(a)	Action potential in cardiac muscle	
	(b)	Define Blood pressure. Explain role its determinants	
		in its maintenance	
	(c)	Heart sound	
	(d)	${\bf Explain \ schematically \ 'Excitation \ contraction \ coupling'}.$	
6	Ans	swer in briefly for any 5:	5
	(a)	Role of B1 receptor in cardiac tissue	
	(b)	Physiological role of Na-ion (any two)	
	(c)	Normal K -ion concentration in ECF	
	(d)	Advantages of saltatory conduction	
	(e)	Normal total WBC count	
	(f)	Function of Albumin.	





R-3703

First Year M. B. B. S. Examination

November / December - 2018 Physiology: Paper - II

Time: 2.30 Hours] [Total Marks: 50 Instructions: Seat No.: નીચે દર્શાવેલ 👉 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fillup strictly the details of 👉 signs on your answer book. Name of the Examination: FIRST YEAR M. B. B. S. Name of the Subject : PHYSIOLOGY : PAPER - II → Section No. (1, 2,.....): Nil Student's Signature 0 Subject Code No.: 3 Draw diagrams and flow charts wherever required. SECTION - I Give an account on Hypothalamic nuclei. Describe the 8 functions of Hypothalamus. Write notes on any three: 12 2 (a) Semicircular canals Functions of cerebral cortex Draw and label Visual pathway Middle ear functions 5 Explain in brief, 1-2 sentences: (any five) (a) Define synaptic delay. Mention its normal duration. (b) What is wallerian degeneration? What is menarche. (d) Synaptic Reverberation. Bitemporal Hemianopia. (e) (f) Broca's area. [Contd... R-3703] 1

SECTION - II

4	Wri	Write notes on any 4:			
	(a)	Corpus luteum			
	(b)	Safe period			
	(c)	Function of placenta			
	(d)	Endometrial changes in proliferative phase of menstrual cycle			
	(e)	Stages of Spermatogenesis			
5	Sho	ort notes on any 3:			
	(a)	Addison's disease			
	(b)	Synthesis of Triiodothyronine			
	(c)	Regulation of Growth hormone secretion			
	(d)	Errors of refraction			
6	Ans	swer/Explain in 1-2 sentences : (any 5)			
	(a)	Normal sperm count in semen			
	(b)	Define cryptorchidism			
	(c)	Stereognosis			
	(d)	Function of Pacinian corpuscles			
	(e)	Normal body temperature			
	(f)	What is Goiter?			

