

MJ-7792

Seat No.

First Year B. Physiotherapy Examination July - 2016 Physiology

Тіп	10 · 9	Hours]	[Total Marks :	100			
1 111	. ie	inours	[Total Warks .	100			
Ins	struct	tions : (1)	Write answers of each section in separate ansbook.	wer			
		(2)	Answers should be brief and draw necess diagrams.	ary			
		(3)	Illegible writing will not fetch any marks.				
		(4)	Figures to the right indicate full marks.				
			SECTION - I				
1	Des	cribe the fo	ollowing : (Any Two)	20			
	(a)						
	(b)						
	(c)	Short term	n regulation of blood pressure				
2	Wri	te notes on	: (Any Two)	10			
	(a)	Functions of Liver					
	(b)	Juxta glomerular apparatus					
	(c)	Transport	of oxygen in the body				
3	Wri	te in brief	: (Any Five)	10			
	(a)	Classificat	cion of WBC				
	(b)	Functions	of kidney				
	(c)	Functions	of surfactant				
	(d)	Types of l	hypoxia				
	(e)	Importanc	e of mass peristalsis				
	(f)	Define He	mostasis				

Answer t	the following questions:	(Writ	te the correct answers) 10				
(1) The	The Normal blood pH is:						
(A)	7.2	(B)	7.3				
(C)	7.4	(D)	7.5				
(2) Alm	Almost 90% of the carbon dioxide is carried as:						
(A)	Dissolved form	(B)	Carbonic acid				
(C)	Carbonic anhydrase	(D)	Bicarbonate				
(3) Caro	Cardiac index is cardiac output per unit:						
(A)	Surface area	(B)	Body weight				
(C)	Body volume	(D)	Time				
(4) The	The second heart sound is mainly due to:						
(A)	(A) Closure of Atrioventricular valves						
(B)	(B) Closure of Semilunar valves						
(C)	(C) Turbulent flow of blood in aorta						
(D)	(D) Inflow of blood from ventricle to aorta						
(5) The	The digestive function of bile pigments:						
(A)	in digestion of fat						
(B)	in digestion of protein						
(C)	in digestion of carbohyd	lrate					
(D)	no digestive function						
(6) Cya:	anosis occurs when:						
(A)	(A) Deoxygenated hemoglobin increases						
(B)	(B) Deoxygenated hemoglobin decreases						
(C)	Oxygenated hemoglobin	incr	eases				
(D)	Oxygenated hemoglobin	decr	eases				
(7) Acti	Active reabsorption of glucose from the filtrate occurs						
in:							
(A)	Proximal tubules	(B)	Collecting ducts				
(C)	Loop of Henle	(D)	Distal tubules				
(8) Glor	merular filtration rate is:						
(A)	125 ml/min	(B)	125 ml/sec				
(C)	125 Lit/min	(D)	125 Lit/hour				

4

	(9)	Cardiac output in man under basal condition would be close to:				
		(A) 5.0 liters	(B)	2.5 liters		
		(C) 4.0 liters	(D)	7.5 liters		
	(10)	The oxygen haemoglobi	in dissocia	tion curve is -		
		(A) Bell shaped	(B)	S shaped		
		(C) Delta shaped	(D)	Normal shaped		
		SECT	ION - II			
5	Describe the following: (Any Two)					
	(a) Synapse					
	(b) Posterior pituitary hormones					
	(c)	Connections and functi	ons of cer	ebellum		
6	Write notes on : (Any Two)					
	(a) Colour vision					
	(b) Physiological basis of contraception					
	(c)	Menstrual cycle.				
7	Write in brief: (Any Five) 10					
	(a) Define all or none law					
	(b) Hormones secreted from pancreas					
	(c) Types of eye movements					
	(d)	(d) Name important ascending tracts of spinal cord				
	(e)	Functions of Na - K pump				
	(f) Clinical importance of neuromuscular junction.					
8	Answer the following questions: (Write the correct answers				swers) 10	
	(1) Direct control of insulin occurs through:					
	(A) Sympathetic innervation to pancreas					
	(B) Parasympathetic innervation to pancreas					
		(C) Blood glucose leve	1			
	(D) Hypothalamus					
ΜJ	J-7792] 3		3		[Contd	

(2)) Which is not an anterior pituitary hormone?						
	(A) Prolactin						
	(B) Follicle stimulating horn	Follicle stimulating hormone					
	(C) Oxytocin	Oxytocin					
	(D) Luteinising hormone	Luteinising hormone					
(3)	he temperature regulating centre is mainly located in :						
	(A) Medulla	(B)	Pons				
	(C) Hypothalamus	(D)	Cerebellum				
(4)	Which one of the following is not a part of brain stem?						
	(A) Medulla	(B)	Midbrain				
	(C) Pons	(D)	Cerebellum				
(5)	The colour of eyes is due to:						
	(A) Sclera	(B)	Cornea				
	(C) Lens	(D)	Iris				
(6)	3) A bus driver is using +3 diopters spherical lens when						
	he is driving. He is suffering	g fro	m :				
	(A) Myopia	(B)	Hyperopia				
	(C) Astigmatism	(D)	Emmetropia				
(7)	The part of brain serving a	as a	great sensory relay				
	station is:						
	(A) Thalamus	(B)	Hypothalamus				
	(C) Medulla	(D)	Midbrain				
(8)	All of the following hormones are produced by placenta						
	except:	(D)	0 4				
	(A) HCG	(B)	Oestrogen				
(0)	(C) Progesterone (D) Oxytocin						
(9)	A sarcomere is a unit between two successive:						
	(A) Z lines	(B)					
(10)	(C) A zones	(D)					
(10)	v						
	lirectly proportional to : A) Branching of axon						
	(B) Length of the fibre (C) Diameter of the fibre						
	(D) Diameter of the dendrites						
	(2) Diameter of the defidite						