

MAK-4650 Seat No. _____

First Year M. B. B. S. Examination

October / November - 2016 Physiology: Paper - I

Tin	ne : 3	B Hours] [Total Marks:	[Total Marks : 50			
Ins	struct	tions: (1) Write each section in separate answer book. (2) Write legibly and precisely. (3) Draw diagram whenever necessary.	s.			
		SECTION - I				
1		scribe structure, functions, catabolism and different ieties of Haemoglobin.	8			
		\mathbf{OR}				
1		scribe Landsteiner law, Rh System and hazards of matched blood transfusion.				
2	Write short notes:					
	(a)	Lung Compliance.				
		OR				
	(a)	Transport of Oxygen in blood.				
	(b)	Bile.				
	(-)	OR				
	(b)	Movements of large intestine.				
3	(a)	What is renal clearance? Describe clearance based tests for renal function.	5			
	(b)	Explain in a few sentences:	4			
		(i) RBC size increases in Pernicious anemia.				
		(ii) Prayer before meal is beneficial.				
		(iii) Edema develops in renal diseases.				
		(iv) Salty foods are not advisable for hypertensive				

SECTION - II

4	Define cardiac output. Describe factors affecting it and methods of its measurement.						
			OR				
4		Define Heart rate. Describe factors affecting it and its ontrol.					
5	Write short notes:						
	(a)	Glor	merular filtration rate.				
			OR				
	(a)	Ren	al Counter-current mechanism.				
	(b)	Dea	d Space of lung.				
			OR				
	(b)	odic breathing.					
6	(a)	Describe Respiratory and Cardiovascular changes during exercise.					
	(b)	Exp	lain in a few sentences:	4			
		(i)	Performance of a person mainly depends upon his cardiovascular efficiency not upon his respiratory efficiency.				
		(ii)	2^{nd} heart sound is markedly split during deep inspiration.				
		(iii)	Surfactant is important at the time of birth.				
		(iv)	Alkaline tide is observed after food intake.				