HEALTH SCIENCES LIBRARY

Reg. No.

MANIPAL UNIVERSITY

FIRST MBBS DEGREE EXAMINATION - AUGUST 2009

SUBJECT: PHYSIOLOGY- PAPER I (ESSAY)

Thursday, August 13, 2009

	Thursday, Magast 13, 2007	
Time	e: 10:20 – 13:00 Hrs.	Maximum Marks: 40
K	All questions are compulsory .Write brief, clear and legible answer	s.
Ø	Illustrate your answers with diagrams and flow charts wherever ap	propriate.
1.	Describe the pathway for pain sensation from trunk and face. Add note	on referred pain.
		(7+3 = 10 marks)
2.	Name the posterior pituitary hormones and describe their actions.	
		(6 marks)
3.	Describe the sequence of events in neuromuscular transmission	on. Add a note on
	Neuromuscular blocking agents.	
		(4+2 = 6 marks)
4A.	Explain the factors influencing spermatogenesis.	
		(3 marks)
4B.	Oral contraceptive pills and IUCD in prevention of conception.	
		$(1\frac{1}{2}+1\frac{1}{2}=3 \text{ marks})$
4C.	Draw a diagram and explain how a nerve impulse is propagated in a:	
	i) myleinated nerve fiber	
	ii) non myelinated fiber.	
		(3 marks)
4D.	Write briefly on colour blindness.	(o Mario)
	The onen on colour officialess.	(2 morks)
		(3 marks)

Ionic basis for action potential in a skeletal muscle and ventricular muscle.

4E.

4F.

Thalamic syndrome.

(3 marks)

(3 marks)

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FIRST MBBS DEGREE EXAMINATION – AUGUST 2009

SUBJECT: PHYSIOLOGY-PAPER II (ESSAY)

Friday, August 14, 2009

Time: 10:20 - 13:00 Hrs.

Maximum Marks: 40

 Enumerate any six differences between I and II heart sounds. How do you record heart sounds? Explain the neural control of cardiovascular system.

(3+1+6=10 marks)

2. Enumerate the functions of upper respiratory tract and explain any two of them.

(2+4 = 6 marks)

3. Explain how plasma proteins help to prevent oedema. Enumerate any two functions of lymph.

(5+1 = 6 marks)

4A. Compare the renal reabsorption of water in the proximal and distal parts of the nephron.

(3 marks)

4B. Define/explain the term 'filtration fraction'. Give its normal value. How is it affected in hypotension?

Health Sciences Library

(1+1+1=3 marks)

4C. Briefly describe the functions of colon.

(3 marks)

4D. Mention any three physiological functions of hydrochloric acid. Write briefly on fat absorption.

 $(1\frac{1}{2}+1\frac{1}{2}=3 \text{ marks})$

4E. List five factors maintaining arterial blood pressure. What is 'adrenaline apnea'?

 $(2\frac{1}{2} + \frac{1}{2}) = 3 \text{ marks}$

- 4F. What is the importance of the following on cardiovascular system functions.
 - i) A-V nodal delay
 - ii) Purkinje fibers having fastest velocity of impulse conduction
 - iii) Windkessel effect

(1+1+1=3 marks)