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	MANIPAL	UNIVE	RSIT	ΓY						
M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – JULY 2013										
	PAPER I: GENERAL PHYSIOLO SPECIAL SEN				MIN	NCL	UDI	NG		
	Thursda	y, July 11, 20)13							
Time: 14:00 – 17:00 Hrs.					Maximum Marks: 100					
1.	Enumerate the functions of reticular form	nation. Desc	ribe ai	ny two i	n det	tail.				
								(2	.0 ma	arks)
2.	What is electroencephalography? Descri	ibe its variou	s wav	es.						
	8							(2	.0 ma	arks)
3.	Describe the functions of prefrontal lobe	s.								
								(2	20 ma	arks)
4.	Describe:									
4A.	. REM sleep									

4B. Tympanic reflex

5. Explain:

- Duplicity theory of vision 5A.
- Place principle in pitch discrimination 5B.

(20 marks)

(20 marks)

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M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – JULY 2013 PAPER II: CARDIOVASCULAR PHYSIOLOGY, RESPIRATORY SYSTEM, RENAL PHYSIOLOGY AND BLOOD

Friday, July 12, 2013

Time: 14:00 - 17:00 Hrs.

1. Explain the process of coagulation of blood. Add a note on anticoagulants and their uses.

(20 marks)

Maximum Marks: 100

2. Describe the factors influencing the affinity of hemoglobin to oxygen. Explain the significance of P50.

(20 marks)

3. Explain the mechanisms which restore the blood pressure after haemorrhage.

(20 marks)

4. Explain the factors which result in:

4A. Turbulent flow. Add a note on clinical significance of turbulent flow

4B. Describe the factors influencing venous return.

(10+10 = 20 marks) *

5. Explain the mechanism of filling and emptying of urinary bladder in a normal individual.

(20 marks)

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M.Sc. MEDICAL (FINAL) PHYSIOLOGY DEGREE EXAMINATION – JULY 2013 PAPER III: GASTROINTESTINAL TRACT, ENDOCRINOLOGY AND REPRODUCTION

Saturday, July 13, 2013

Time: 14:00 – 17:00 Hrs.

1. Describe how are the mechanisms of bone formation and bone resorption linked in calcium homeostasis. Explain the role of other organs of the body in calcium metabolism.

(20 marks)

Maximum Marks: 100

2. Describe the consequences of derangement in feedback loop operations of hormonal secretions in the body.

(20 marks)

3. Discuss the changes observed in reproductive organs during a normal menstrual cycle with the hormonal basis.

(20 marks)

- Describe the various functions of the liver with specific examples and tests to assess the same. (20 marks)
- 5. Write briefly on:
- 5A. Cause and features of Conn's syndrome
- 5B. Turner's syndrome
- 5C. Sertoli cell functions
- 5D. Various loop mechanisms in the regulation of G.I. tract secretions

(20 marks)