MANIPAL UNIVERSITY

MD (PHYSIOLOGY) DEGREE EXAMINATION - APRIL 2008

SURJECT: PAPER I: GENERAL PHYSIOLOGY, NERVOUS SYSTEM, SPECIAL SENSES

OCDUDET (I III DI		,
	Tuesday, April 01, 2008	
Time: 3 Hrs.		Max. Marks: 100

Answer ALL the questions. All questions carry equal marks.

Explain the principle underlying measurement of volume of body fluid compartments. 1. Compare the composition of different body fluid compartments.

(20 marks)

Describe the pain inhibiting mechanisms of the body. 2.

(20 marks)

Write briefly on: 3. 3A. Aphasia. Pathophysiology of obesity.

(10+10 = 20 marks)

Discuss the modern views of mechanism of colour vision and the pathophysiology of colour 4 blindness. (20 marks)

Discuss the connections and functions of prefrontal lobes. Add a note on the effects of 5. prefrontal lobectomy. (20 marks)

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MD (PHYS	SIOLOGY) DEG	REE EX	AM	INA	TI	ON-	$-\mathbf{A}$	PRI	L 2	008		
SUBJECT: P	APER II: CARDIO RENAL PHY						ГOR	YS	YST	EM,	,	
	Wednes	sday, April	02, 2	2008								
: 3 Hrs.									Max	. Ma	arks:	100
	onary function tests i									(2	20 ma	
Describe in detail to Frank-Starlings	I homometric and he s law.	terometric	regu	lation	n of	the h	eart	with	spe	cial	refer	ence
										(2	20 ma	ırks)
	s blood group system anges in stored blood		be th	ie di	ffere	nt ty	pes	of b	lood	tran	ısfusi	ions.
										(2	20 ma	arks)

3. Name the various bloo ns. Add a note on changes ks)

Time: 3 Hrs.

1.

2.

4. Describe the role of counter-current systems in the concentration of urine. (20 marks)

5. Discuss the special features of coronary circulation. Add a note on the principles of treatment of angina pectoris. (20 marks)

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MD (PHYSIOLOGY) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER III: GASTROINTESTINAL TRACT, ENDOCRINOLOGY AND REPRODUCTION

Thursday, April 03, 2008

Max. Marks: 100 Time: 3 Hrs.

Answer ALL the questions. All questions carry equal marks.

Describe the endocrine regulation of calcium metabolism.

Discuss the role of hypothalamus in endocrine regulation.

Describe the changes in the body during pregnancy.

Describe the functions of testes.

Describe the role of hormones in gastrointestinal function.

(20 marks)

(20 marks)

(20 marks)

(20 marks)

(20 marks)

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MD (PHYSIOLOGY) DEGREE EXAMINATION – APRIL 2008

SUBJECT: PAPER IV: RECENT ADVANCES IN PHYSIOLOGY, APPLIED AND CLINICAL PHYSIOLOGY

Friday, April 04, 2008

Tim	e: 3 Hrs.	Max. Marks: 100
Ø	Answer ALL the questions. All questions carry equal marks.	

1. Discuss immunity.

Describe the physiological basis of diabetic ketoacidosis. Explain the principles of treatment

of diabetes mellitus.

(25 marks)

Discuss the physiology of growth.

of growth. (25 marks)

- Write briefly on the following:
- 4A. Perimetry

3.

4.

4B. Nerve degeneration and regeneration.

(10+15 = 25 marks)

