Reg. No.		-			
	 _				

(4+2+2 = 8 marks)

Page 1 of 2

#### MANIPAL UNIVERSITY

## SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: PATHOLOGY AND MICROBIOLOGY

Monday, June 07, 2010

Time	e: 14:	00-17:00 Hrs.			Max. Marks: 80
K			ER B	OOKS for each section.	
Ø	Ans	wer all questions.			
		SECT	ION -	'A': PATHOLOGY: 40 MARKS	
1.	Def	ine necrosis. Describ	e the ty	pes of necrosis with examples.	
					(1+7 = 8  marks)
2.	Des	cribe the clinical feat	ires, ac	etiology and basic investigations of tw	vo nutritional anemias.
					(2+2+3 = 7  marks)
3.	Wri	te short notes on:			
3A.	Fac	tors influencing woun	d heali	ng.	
3B.	Hea	mophilia.			
3C.	Pha	gocytosis.			
3D.	Prin	nary tuberculosis.			
3E.	Mo	de of spread and prog	nosis o	f tumours.	
					$(5 \times 5 = 25 \text{ marks})$
		SECTION	ON - '	B': MICROBIOLOGY : 40 MARK	S
4A.	Mat	tch the following:			
	Par	t-I	Par	<u>t – II</u>	
	1)	Adhesion	a)	Flagella	
	2)	Motility	b)	Ribosome	
	3)	Metabolism	c)	Pili	
	4)	Protein synthesis	d)	Mesosome	*
					$(1\times4=4 \text{ marks})$
4B.	Fill	in the blanks:			
	i)	Holding period of h	ot air o	oven at 160°C is	
	ii)	Syphilis is caused b	у	_,	
	iii)	Plastic syringes are			
	iv)	is an importa	nt viru	lence factor present in the cell wall of	f Gram negative bacteria.
					$(1\times4=4 \text{ marks})$
-	CI	10.1			
5.	Cla	ssify bacteria with exa	amples	. Add a note on culture media and cul-	ture methods.

Define disinfection. Add a note on chemical agents used for disinfection.

(1+7 = 8 marks)

- 7. Write short notes on:
- 7A. Koch's postulates
- 7B. Autoclave

6.

 $(4 \times 2 = 8 \text{ marks})$ 

- Write briefly about:
- 8A. Sterilization by Radiation.
- 8B. Modes of transmission of Infection.
- 8C. Bacterial flagella.
- 8D. National Immunization schedule.

 $(2\times4 = 8 \text{ marks})$ 



Reg. No.

#### MANIPAL UNIVERSITY

## SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2010

## SUBJECT: ENT AND ORTHOPAEDICS

Wednesday, June 09, 2010

Time: 14:00-17:00 Hrs.

Max. Marks: 80

- ∠ USE SEPARATE ANSWER BOOKS FOR EACH SECTION.
- Answer All Questions.

#### SECTION - 'A': ENT: 40 MARKS

1. What is cochlear implant? What are the essential radiological investigations required prior to cochlear implantation?

(4+4 = 8 marks)

Discuss the etiopathogenesis of chronic maxillary sinusitis. Discuss regarding the radiological investigation of a case of chronic maxillary sinusitis.

(3+5 = 8 marks)

Enumerate cystic lesions in head and neck. Discuss regarding its radiological investigations.

(3+5 = 8 marks)

 Enumerate the complications of chronic suppurative otitis media. Discuss in detail regarding radiologic investigations of its extra cranial complications.

(3+5 = 8 marks)

5. What is osteomeatal complex (OMC)? Why are coronal cuts preferred in CT OMC?

(3+5 = 8 marks)

#### SECTION - 'B': ORTHOPAEDICS: 40 MARKS

Describe the Radiological classification of fractures. Outline the methods of treatment of fractures.

(8 marks)

7. Write notes on precautions in handling a trauma victim with spinal injury.

(8 marks)

8. Enumerate the radiological features of Chronic osteomyelitis

(8 marks)

9. Arthrogram

(8 marks)

10. Enumerate commonly used orthopaedic hardware.

(8 marks)

Reg. No.			

## MANIPAL UNIVERSITY

#### SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION - JUNE 2010

#### SUBJECT: FORENSIC MEDICINE

Friday, June 11, 2010

Time: 14:00-15:30 Hrs.

Max. Marks: 40

- 1. Define Forensic Radiology. Explain its role in hospital setup.

(2+3 = 5 marks)

2. Explain Vicarious liability and its doctrines.

(5 marks)

- 3. Explain:
- 3A. Novus Actus interveniens.
- 3B. Product liability.
- 3C. Medical maloccurence.
- 3D. Res ipsa loquitor.

 $(2\frac{1}{2} \times 4 = 10 \text{ marks})$ 

- 4. Write short notes on:
- 4A. Therapeutic privilege.
- 4B. Medical significance of ages 12 to 18 yrs.
- 4C. Corporate negligence.
- 4D. Loco parentis.

 $(2\frac{1}{2} \times 4 = 10 \text{ marks})$ 

- Explain:
- 5A. Contributory negligence.
- 5B. Functions of State Medical Council.
- 5C. Informed Refusal.
- 5D. Therapeutic Misadventure.

 $(2\frac{1}{2} \times 4 = 10 \text{ marks})$ 



Reg. No.
----------

#### MANIPAL UNIVERSITY

### SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2010

#### SUBJECT: RADIOGRAPHIC SPECIAL PROCEDURES

Monday, June 14, 2010

Time: 14:00-15:30 Hrs. Max. Marks: 40

- Answer ALL questions.
- Each question carries 8 marks.
- 1. Classify the contrast reactions according to severity. Add a note on treatment.
- 2. Write in detail about enteroclysis.
- 3. Describe barium swallow.
- Describe dacrocystography.
- 5. Write short notes on the following:
- 5A. Sterlization of catheters.
- 5B. Standard views in single contrast barium enema.



Reg. No.		

## MANIPAL UNIVERSITY

## SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: IMAGING PHYSICS AND RADIOGRAPHIC POSITIONING

	Wednesday, June 16, 2010	
Tim	ne: 14:00-15:30 Hrs.	Max. Marks: 40
Ø	Answer ALL questions.	
1.	Draw a labeled diagram of a tipical lumbar vertebra. Explain the AP and la spine.	ateral views for LS
		(8 marks)
2.	Mention the different views for ankle joint with a diagram showing the joint.	anatomy of ankle
		(8 marks)
3.	Describe the optic foramina and Schullers view.	
		(8 marks)
4.	Write in detail about the reconstruction method used in CT scanner.	
		(8 marks)
5.	What is the principle behind Doppler and what is Doppler shift?	
		(8 marks)



Reg.	No.					
-						

# MANIPAL UNIVERSITY SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION – JUNE 2010

	SUBJECT: MEDICINE		
	Friday, June 18, 2010		
Tin	ne: 14:00-15:30 Hrs.	Max	. Marks: 40
K	Answer ALL the questions.		
1.	Describe the pathogenesis and clinical features of Bronchogenic Carcinoma.		
			(8 marks)
2.	Write short notes of Universal precaution.		
			(8 marks)
3.	Write short notes on Diabetes Mellitus.		
			(8 marks)
4.	Causes and clinical features of Cholecystitis.		
			(8 marks)
5.	What are the causes and clinical features of Pulmonary edema.		
			(8 marks)

Reg. No.
----------

## MANIPAL UNIVERSITY SECOND YEAR B.Sc. M.I.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: SURGERY

Monday June 21, 2010.

m.	1400 15 20 77
Tin	ne: 14:00-15:30 Hrs. Max. Marks: 40
K	Answer ALL questions.
1.	Classify breast lumps. Describe clinical features and relevant investigations in a case of carcinoma breast.
	(8 marks
2.	Enumerate causes of hematuria. Discuss investigations for hematuria.
	(8 marks
3.	Write clinical features and investigations of amoebiasis.
1	(8 marks
4.	Describe the pathophysiology, causes and clinical features of Acute Appendicitis. Mention relevant investigations.
	(8 marks

- Write in short: 5.
- 5A. Enumerate causes of hemetemesis.
- 5B. Define fistula.

 $(4 \times 2 = 8 \text{ marks})$ 

