

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



MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

V SEMESTER B.Tech. (BME) DEGREE END SEM EXAMINATIONS, NOV/DEC- 2016

SUBJECT: BASIC CLINICAL SCIENCES II (BME 3101)
(REVISED CREDIT SYSTEM)

Thursday, 24th November, 2016 : 2.00 to 5.00 pm

TIME: 3 HOURS

MAX. MARKS: 100

Instructions to Candidates:

1. Answer ALL questions from PART- A, PART-B and PART- C. Use separate answer books for PART-A, PART-B and PART-C.
2. Draw labeled diagram wherever necessary.

PART- A. OPHTHALMOLOGY (Max. Marks 40)

- 1) Discuss LASER in ophthalmology. 10
- 2) Classify Tonometry. Discuss any one type in detail. 6+4
- 3) Discuss Phacoemulsification. Write briefly on Intraocular lens. 6+4
- 4) Write short notes on, 5+5
(i) Low vision Aids. (ii) Perimetry.

PART- B. ORTHOPAEDICS (Max. Marks 30)

- 1) Discuss the anatomy of long bones. Classify fractures of long bones. 10
- 2) Describe metallurgy of orthopaedic implants. 10
- 3) Discuss arthroscopy in Orthopaedics. 10

PART-C. SPEECH AND HEARING (Max. Marks 30)

- 1) Define hearing aid and cochlear implant. Explain the component of cochlear implant. 10
- 2) Define speech, language and hearing. Explain your role in the same. 10
- 3) Explain the importance of assessing hearing sensitivity. Name and explain the instrument used for hearing evaluation 10