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MANIPAL INSTITUTE OF TECHNOLOGY
(A Constituent Institute of MAHE – Deemed University)
Manipal – 576 104



FIFTH SEMESTER B.E. DEGREE MAKE-UP EXAMINATIONS- JANUARY 2007

SUBJECT: BASIC CLINICAL SCIENCES-II (BME 303)
(REVISED CREDIT SYSTEM)

Saturday January 06, 2007, 2.00 p.m. to 5 p.m.

TIME: 3 HOURS

MAX. MARKS: 100

Instructions to Candidates:

1. Answer any FIVE full questions from PART-A and any FIVE full questions from PART-B
2. Use separate answer books for PART-A and PART-B
3. Draw labeled diagram wherever necessary.

Part – A ENT & SPEECH AND HEARING

1. (a) Discuss the merits, demerits and uses of cryosurgery in ENT. (2+1+2=05)
(b) Draw a neat diagram of cartilages of Larynx and enumerate the functions of Larynx. (3+2=05)
2. Write briefly on each of the following: (5+5=10)
(a) KTP Laser
(b) Fibreoptic Endoscope
3. (a) What is Organ of Corti? Discuss any 2 theories of hearing. (1+4=5)
(b) Draw a neat labeled diagram of showing parts of a multi channel cochlear implant and enumerate the indications for its use. (3+2=5)
4. Discuss the various alaryngeal modes of communication. Draw a neat block diagram of the Artificial Larynx. 10
5. Describe any two softwares used for acoustic analysis of speech. 10
6. Explain in detail about the calibration of audiometer with block diagram. 10

Part – B OPHTHALMOLOGY

1. What is Laser? Discuss lasers in ophthalmology. (1+9=10)
2. What are the equipments used to visualize the posterior segment (fundus) of the eye? Discuss the optical principle of one of them. (4+6=10)

3. Write short notes on : a) Goldman Perimeter b) Low vision aids 5+5=10
4. What is Phacoemulsification ? What are the advantages of Phacoemulsification? Describe the parts of the machine used for Phacoemulsification. Add a note on the types of pumps used in the machine mentioning the advantage of each type. (1+3+3+3=10)
5. Write short notes on : a) Gonioscopy b) Contact Lenses (5+5=10)
6. Discuss the production , circulation and drainage of aqueous humour in the eye. What is the normal range of intraocular pressure? Discuss applanation tonometry. (3+1+6=10)



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