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MANIPAL INSTITUTE OF TECHNOLOGY

(A Constituent Institute of – Manipal University)

Manipal – 576 104



THIRD SEMESTER B.E DEGREE SUMMER/MAKE-UP SEMESTER EXAMINATIONS JULY 2008.

SUBJECT: ANATOMY AND PHYSIOLOGY (BME 207)

(REVISED CREDIT SYSTEM)

July, 2008

TIME: 3 HOURS

MAX. MARKS: 100

Instructions to Candidates:

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

PART-A ANATOMY

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| 1. | a) Classify the types of bone, giving one example each. | 6+4 |
| | b) Describe a typical synovial joint. | |
| 2. | a) Describe the external and internal features of right atrium. | 7+3 |
| | b) Describe the arterial supply of heart. | |
| 3. | Name the parts of female reproductive system. Describe any one part in detail. | 6+4 |
| 4. | Name the parts of the urinary system. Describe any one part in detail. | 3+7 |
| 5. | Enumerate all the cranial nerves. Mention the function of each. | 5+5 |
| 6. | a) Name the parts of the respiratory system. | 5+5 |
| | b) Describe the Testis in detail | |

PART-B PHYSIOLOGY

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| 1. | a) Draw a neat diagram of a neuron and label its parts. Mention the advantages of myelinated nerve fibers. | 4+3+3 |
| | b) Classify muscles | |
| 2. | a) Draw a neat labeled diagram of ECG taken from limb lead II and mention three uses of ECG. | 4+3+3 |
| | b) Enumerate four properties of cardiac muscle. | |
| 3. | a) Draw a neat labeled diagram of nephron. Name the steps in the formation of urine. | 4+3+3 |
| | b) Enumerate three functions of skin. | |
| 4. | a) Define i) Apnoea ii) Dysnea iii) Vital capacity iv) Tidal volume v) Hypoxia vi) Cyanosis vii) Residual volume. | 7+3 |
| | b) Draw normal spirogram and label. | |

5. a) Draw a neat labeled diagram of cross section of the eye. 7+3
 b) Name the chemical senses and mention the location of receptors for
 them.
6. a) What constitutes the central nervous system? 3+7
 b) Explain the functions of automatic nervous sytem.

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