

MANIPAL UNIVERSITY

FIRST SEMESTER B.P.T. (BRIDGE PROGRAM) EXAMINATION – JUNE 2013

SUBJECT: BIOCHEMISTRY
(COMMON FOR BOTH OLD AND NEW REGULATION)

Monday, June 10, 2013

Time: 10:00-11:30 Hrs.

Max. Marks: 40

1. Outline the biosynthesis of mature collagen with diagrams. (8 marks)
2. Give sources, RDA, absorption, transport, storage and deficiency symptoms of iron. (6 marks)
3. **Write short notes on the following:**
 - 3A. Basal metabolic rate
 - 3B. Acidosis
 - 3C. Absorption of glucose in the small intestine
 - 3D. Triacylglycerol synthesis(4×4 = 16 marks)
4. **Answer the following:**
 - 4A. Define transamination with one example.
 - 4B. Name two glycogen storage disorders with their defective enzymes.
 - 4C. List the key enzymes of gluconeogenesis.
 - 4D. Name the creatine kinase isoenzymes and give the diagnostic importance of any one of them.
 - 4E. Name two essential fatty acids and give their functions.(2×5 = 10 marks)



MANIPAL UNIVERSITY**FIRST SEMESTER B.P.T. (BRIDGE PROGRAM) EXAMINATION – JUNE 2013****SUBJECT: SOCIOLOGY
(NEW REGULATION)**

Wednesday, June 12, 2013

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

1. What is sociology? What are the uses of studying sociology?
(2+8 = 10 marks)
2. What is social control? Mention any four means of social control. How do they regulate human behavior?
(2+2+6 = 10 marks)
3. Consequences of alcoholism in relation to sickness and disability. What measure do you suggest to prevent it?
(5+5 = 10 marks)
4. **Write short notes on the following:**
 - 4A. Social change and health program.
 - 4B. Effect of sickness on family.(5×2 = 10 marks)



MANIPAL UNIVERSITY**FIRST SEMESTER B.P.T. (BRIDGE PROGRAM) EXAMINATION – JUNE 2013****SUBJECT: PHARMACOLOGY
(NEW REGULATION)**

Friday, June 14, 2013

Time: 10:00 - 11:30 Hrs.

Max. Marks: 40

Answer the following questions:

1. Classify skeletal muscle relaxants with an example for each class.
(3 marks)
2. Mention one advantage and one disadvantage of the following routes of drug administration:
 - 2A. Intravenous
 - 2B. Intramuscular(1×2 = 2 marks)
3. **Mention two drugs useful in the following condition:**
 - 3A. Angina
 - 3B. Parkinsonism
 - 3C. Peptic ulcer
 - 3D. Insomnia
 - 3E. Rheumatoid arthritis
 - 3F. Malaria(1×6 = 6 marks)
4. **Explain the following terms with an example:**
 - 4A. Teratogenicity
 - 4B. Iatrogenic disease(2×2 = 4 marks)
- 5A. Explain the mechanism of action of cotrimoxazole.
5B. List four differences between aspirin and paracetamol.
5C. Mention two therapeutic uses and two contraindications of morphine.
5D. Describe the effects of adrenaline on cardiovascular system.
(2+2+2+3 = 9 marks)
6. **List two examples and two therapeutic uses of the following class of drugs:**
 - 6A. Aminoglycosides
 - 6B. Fluoroquinolones
 - 6C. Beta lactam antibiotics

- 6D. Antiplatelet agents
- 6E. Anticholinesterases

(2×5 = 10 marks)

7. Mention three classes of antihypertensive drugs with an example for each class.

(3 marks)

8. Write a short note on drug nomenclature.

(3 marks)

