

MANIPAL UNIVERSITY**SECOND SEMESTER B.Sc. M.L.T. DEGREE EXAMINATION – JUNE 2017****SUBJECT: BLT 108: GENERAL MICROBIOLOGY**

Friday, June 02, 2017

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- ✍ **Answer ALL questions.**
✍ **Draw diagrams if necessary.**

1. Define Disinfection. Discuss various chemical disinfectants.

(2+8 = 10 marks)

2. **Write detailed notes on the following:**

- 2A. Agar dilution method for AST
2B. Filters in sterilization
2C. Mutation
2D. Bacterial spores and their significance

(5 marks × 4 = 20 marks)

3. **Write short notes on the following:**

- 3A. Differential media with an example
3B. TSI test
3C. Anaerobic chamber
3D. Negative staining
3E. F^+ - F^- conjugation

(2 marks × 5 = 10 marks)



Reg. No.

MANIPAL UNIVERSITY

**SECOND SEMESTER B.Sc. MIT/BACHELOR OF OPTOMETRY/B.Sc. MLT/FIRST YEAR M.SC. NMT
DEGREE EXAMINATION – JUNE 2017**

**SUBJECT: BIOCHEMISTRY (MIT 106) / BASIC BIOCHEMISTRY (BOP 104) / GENERAL
BIOCHEMISTRY (BLT 104)/PAPER II: BIOCHEMISTRY (NR)**

Wednesday, June 07, 2017

Time: 10.00-11.30 Hours

Max. Marks: 40

✍ **Answer ALL the questions:**

✍ **Draw diagrams and flow charts wherever appropriate.**

1. Write in detail the reactions of TCA cycle.

(8 marks)

2. Discuss the digestion and absorption of lipids in the intestine.

(6 marks)

3. **Write short notes on:**

3A. Absorption and transport of iron

3B. Lactose intolerance

3C. Nitrogen balance

3D. Dietary fibers

(4 marks × 4 = 16 marks)

4. **Answer the following:**

4A. Give FOUR differences between DNA and RNA.

4B. Mention the factors affecting the absorption of calcium.

4C. Name TWO important compounds each derived from glycine and phenylalanine.

4D. Define transamination with ONE example.

4E. Name TWO inhibitors of electron transport chain with their site of action.

(2 marks × 5 = 10 marks)

