Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. R.R.T. & D.T DEGREE EXAMINATION – JUNE 2018

SUBJECT: PATHOLOGY

(2010 REGULATION/BOT 209:2015 & 2011 SCHEME/2015 & 2010 SCHEME/BDT 201)

Thursday, June 21, 2018

Time: 10:00-11:30 Hrs. Max. Marks: 40

- **Answer ALL questions.**
- **Illustrate your answers with diagrams wherever necessary.**

1. Classify anemia. Discuss the laboratory diagnosis of megaloblastic anemia.

(2+5 = 7 marks)

2. Define inflammation. Mention five cardinal signs of inflammation. Discuss phagocytosis.

(1+2+5 = 8 marks)

3. **Write short notes on:**

3A. Mention the types and complications of diabetes mellitus

3B. Rheumatoid arthritis

3C. Etiology and clinical features of Bronchiectasis

3D. Etiology and morphology of peptic ulcer

3E. Gangrene

(5 marks × 5 = 25 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT DEGREE EXAMINATION – JUNE 2018

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/BOT 208:2015 & 2011 SCHEME/2010 & 2015 SCHEME/2015 SCHEME/BDT 202)

Friday, June 22, 2018

Time: 10:00-11:30 Hrs. Max. Marks: 40

✍ **Draw diagrams wherever appropriate.**

1. Describe the pathogenesis and laboratory diagnosis of human immunodeficiency virus infection.

(4+4 = 8 marks)

2. Describe the predisposing factors in urinary tract infections (UTI). Discuss the laboratory diagnosis of UTI.

(2+5 = 7 marks)

3. **Write briefly on:**

3A. Mechanism of type IV hypersensitivity
3B. Laboratory diagnosis of tuberculosis
3C. MRSA and its importance in hospital associated infections
3D. Moist heat sterilization above 100°C
3E. Bacterial flagella

(5 marks × 5 = 25 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./B.Sc. R.R.T. & D.T. DEGREE EXAMINATION – JUNE 2018

SUBJECT: PHARMACOLOGY

(COMMON FOR 2010 REGULATION/BOT 207:2015 & 2011 SCHEME/2015 SCHEME/BDT 203)

Saturday, June 23, 2018

Time: 10:00-11:30 Hrs. Max. Marks: 40

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1. **Answer the following questions:**

1A. Mention two each advantages and disadvantages of intravenous route of drug administration.

1B. Mention three types of non-receptor mediated drug actions with an example for each.

1C. Classify skeletal muscle relaxants with an example for each class.

(2+3+3 = 8 marks)

2. **Define the following terms:**

2A. Plasma half life

2B. Potency

(1 mark × 2 = 2 marks)

3. **Explain the mechanism of action of the following drugs:**

3A. Digoxin

3B. Warfarin

(2 marks × 2 = 4 marks)

4A. List three first line drugs used in tuberculosis and describe the mechanism of action of any one of them.

4B. List two insulin preparations and mention two adverse effects of any one of them.

4C. Enumerate two corticosteroids and list their two uses and two adverse effects.

(3+2+3 = 8 marks)

5. **Mention two examples and two uses of the following classes of drugs:**

5A. Macrolides

5B. Alpha blockers

5C. H_2 blockers

5D. Beta lactam antibiotics

5E. Opioids

(2 marks × 5 = 10 marks)

6. Explain the pharmacological basis for combining levodopa with carbidopa for the treatment of parkinsonism.

(2 marks)

7. **Mention two drugs each used in the following conditions:**

7A. Congestive cardiac failure

7B. Bronchial asthma

7C. Insomnia

7D. HIV infection

7E. Angina pectoris

7F. Gout

(1 mark × 6 = 6 marks)