MANIPAL UNIVERSITY

SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T./ B.Sc. R.R.T. & D.T DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: PATHOLOGY
(2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Tuesday, December 15, 2015

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

✍   **Answer ALL questions.**

✍   **Illustrate your answers with diagrams wherever necessary.**

1.   Discuss the etiology of Iron deficiency anemia. Describe the peripheral smear, bone marrow findings and relevant clinical investigations in a case of iron deficiency anemia.

(2+2+2+2 = 8 marks)

2.   Describe the etiopathogenesis and fate of thrombus formation.

(3+4 = 7 marks)

3.   **Write short notes on:**

3A.   Differences between caseous necrosis and coagulative necrosis

3B.   Complications of cutaneous wound healing

3C.   Morphology of Primary pulmonary Tuberculosis

3D.   Rheumatoid arthritis

3E.   Morphology of Ischemic heart disease

(5 marks × 5 = 25 marks)

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SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT
DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: MICROBIOLOGY
(COMMON FOR 2010 SCHEME/2011 BATCH/2010 SCHEME/2011 SCHEME)

Wednesday, December 16, 2015

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

✍ **Draw diagrams wherever appropriate.**

1. Describe the causes, sources and routes of spread and prevention of hospital acquired infections.

    (2+3+3 = 8 marks)

2. Discuss the pathogenesis and laboratory diagnosis of pulmonary tuberculosis.

    (3+4 = 7 marks)

3. **Write short notes on:**

3A. Working principle and uses of autoclave

3B. Mechanism and examples of delayed type hypersensitivity

3C. Pathogenesis and prevention of tetanus

3D. Laboratory diagnosis of Hepatitis B infection

3E. Pathogenesis of HIV infection

    (5 marks × 5 = 25 marks)

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SECOND YEAR B.P.T./B.O.T./B.Sc. M.I.T./B.Sc. C.V.T./B.Sc. R.R.T. & D.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: PHARMACOLOGY
(COMMON FOR 2010 REGULATION/2011 BATCH/2012 SCHEME/2011 SCHEME)

Thursday, December 17, 2015

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

✍ **Answer the following questions:**

1. **Describe the following terms with an example:**
1A. Synergism
1B. Teratogenicity
1C. Chemoprophylaxis

(2 marks × 3 = 6 marks)

2. **List two examples and two therapeutic uses of the following classes of drugs:**
2A. Alpha blockers
2B. Diuretics
2C. Non-steroidal anti-inflammatory drugs
2D. Anticoagulants

(2 marks × 4 = 8 marks)

3. **Describe the mechanism of action of the following drugs and list their two therapeutic uses:**
3A. Cotrimoxazole
3B. Omeprazole
3C. Lignocaine
3D. Nifedipine

(3 marks × 4 = 12 marks)

4A. List four drugs belonging to different classes used in bronchial asthma.
4B. List two skeletal muscle relaxants and mention two therapeutic uses of any one of them.
4C. Describe the pharmacological action of adrenaline on the heart.

(2+2+2 = 6 marks)

5. **List two drugs used for the following conditions:**
5A. Angina
5B. HIV infection
5C. Vomiting
5D. Epilepsy
5E. Diabetes mellitus

(1 mark × 5 = 5 marks)

6. **Mention one example and one adverse effect of the following classes of drugs:**
6A. Aminoglycosides
6B. Anticancer drugs
6C. Corticosteroids

(1 mark × 3 = 3 marks)

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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – DECEMBER 2015

SUBJECT: PAPER V – CONGENITAL & ACQUIRED HEART DISEASE
(2011 SCHEME)

Friday, December 18, 2015

Time: 10.00 – 11.30 Hrs.   Max. Marks: 40

✍ **Answer ALL the questions.**

✍ **Draw the diagram wherever necessary.**

1. Explain ECG, X-ray and Echocariography in Ebstein's anomaly in detail.

2. Write a note on classification of Tricuspid atresia and its ECG and Echo findings.

3. Write a short note on Hypoxic spell's (TET spell).

4. Explain clinical features and laboratory diagnosis of rheumatic fever.

5. Explain the clinical presentation of Co-arctation of aorta at different age group.

(8 marks × 5 = 40 marks)