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SECOND YEAR B.P.T./B.O.T./B.Sc. R.T./ B.Sc. C.V.T./ B.Sc. R.R.T. & D.T/ FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2017

SUBJECT: PATHOLOGY

(2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015 SCHEME/BDT 201/2015 & 2014 SCHEME)

Friday, June 02, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- Answer ALL questions.
- Illustrate your answers with diagrams wherever necessary.
- 1. Define necrosis. Mention and explain four morphologic types of necrosis. Give one example for each.

(2+4+2 = 8 marks)

2. Define neoplasia. List five differences between benign and malignant tumors.

(2+5 = 7 marks)

- 3. Write short notes on:
- 3A. Etiology of atherosclerosis
- 3B. Peripheral blood findings of iron deficiency anaemia
- 3C. Clinical features and microscopy of lepromatous leprosy
- 3D. Complications of diabetes mellitus
- 3E. Definition, etiology and clinical features of chronic bronchitis

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$

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SECOND YEAR BPT/BOT/B.Sc. RT/B.Sc. CVT/B.Sc. RRT & DT/FOURTH SEMESTER B. PFT DEGREE EXAMINATION – JUNE 2017

SUBJECT: MICROBIOLOGY

(COMMON FOR 2010 REGULATION/2011 & 2015 SCHEME/2010 & 2015 SCHEME/2011 & 2015 SCHEME/BDT 202/2015 & 2014 SCHEME)

Monday, June 05, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

- **∠** Draw Diagrams wherever appropriate.
- 1. Define and classify hypersensitivity reactions. Discuss the mechanism of IgE mediated hypersensitivity reaction.

(1+2+5 = 8 marks)

2. Discuss the pathogenesis and laboratory diagnosis of cholera.

(3+4 = 7 marks)

- 3. Write short notes on:
- 3A. Bacterial growth curve
- 3B. Prophylaxis of poliomyelitis
- 3C. Autoclave
- 3D. Laboratory diagnosis of HIV infection
- 3E. Gram negative bacterial cell wall

 $(5 \text{ marks} \times 5 = 25 \text{ marks})$

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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.T./B.Sc. R.R.T. & D.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: PHARMACOLOGY

(COMMON FOR 2010 REGULATION/2011 & 2015 SCHEME/2012 SCHEME/2011 & 2015 SCHEME/2015 SCHEME /BDT 203)

Wednesday, June 07, 2017

Time: 10:00-11:30 Hrs.

Max. Marks: 40

Answer the following questions:

- 1. Explain the following terms with an example:
- 1A. Idiosyncrasy
- 1B. Synergism
- 1C. Chemoprophylaxis
- 1D. Local anesthetics

 $(2 \text{ marks} \times 4 = 8 \text{ marks})$

- 2. Mention one advantage and one disadvantage of the following routes of drug administration:
- 2A. Transdermal
- 2B. Subcutaneous

 $(1 \text{ mark} \times 2 = 2 \text{ marks})$

- 3A. Explain the mechanism of action of chloroquine.
- 3B. List two classes of antiasthmatic drugs with an example for each.
- 3C. List two cholinergic receptors and mention two adverse effects of atropine.

(2+2+2=6 marks)

- 4. Mention two examples and two uses of the following group of drugs:
- 4A. Proton pump inhibitors
- 4B. NSAIDs
- 4C. ACE inhibitors

 $(2 \text{ marks} \times 3 = 6 \text{ marks})$

- 5. List two drugs used in the following conditions:
- 5A. HIV infection
- 5B. Vomiting
- 5C. Parkinsonism
- 5D. Tuberculosis
- 5E. Epilepsy

 $(1 \text{ mark} \times 5 = 5 \text{ marks})$

- 6A. List two anticoagulants and explain the mechanism of action of any one.
- 6B. List two beta blockers and mention their two therapeutic uses and two adverse effects.
- 6C. Define first order kinetics.
- 6D. List two aminoglycosides and mention their four common properties.
- 6E. List two glucocorticoids and mention their two uses and two adverse effects.

(3+3+1+3+3 = 13 marks)



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: PAPER IV – DIAGNOSTIC AND THERAPEUTIC CARDIOLOGY (2015 SCHEME)

Friday, June 09, 2017

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- **Z** Draw the diagram wherever necessary.
- 1. Explain Non coronary indications of TMT and types of ST-T changes.
- 2. Define sound wave. Explain ultrasound transducer surface area, frequency, near field and far field relationship.
- 3. Define slew rate, Sensitivity and Hysteresis of pacemaker function.
- 4. Write a note on permanent pacemaker leads and types of sensors in rate responsive pacemakers.
- 5. Explain the methods of performing HUTT test in detail.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$



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SECOND YEAR B.Sc. C.V.T. DEGREE EXAMINATION – JUNE 2017

SUBJECT: PAPER V – CONGENITAL & VALVULAR HEART DISEASE (2015 SCHEME)

Monday, June 12, 2017

Time: 10.00 - 11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- **∠** Draw the diagram wherever necessary.
- 1. Explain classification, ECG and Echo findings in patent ductus arteriosus.
- 2. Explain ECG, X-ray, Echocardiography in Ebstein's Anomaly in detail.
- 3. Explain clinical presentation, ECG and Severity assessment of Aortic Stenosis.
- 4. Explain ECG and echocardiography in DORV.
- 5. Define pathophysiology of Mitral Regurgitation.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$