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SECOND YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: PATHOLOGY AND MICROBIOLOGY (COMMON FOR BOTH OLD & NEW REGULATION)

Wednesday, August 16, 2006

Time: 3 Hrs.

Max. Marks: 80

- Answer section A and section B in TWO separate answer books.

SECTION 'A': PATHOLOGY: 40 MARKS

 Discuss the process of healing by second intention. Mention the factors which influence wound healing.

(4+4 = 8 marks)

2. Mention the causes of shock. Discuss the pathogenesis of septic shock.

(3+4 = 7 marks)

- Write short notes on any FIVE.
- 3A. Granuloma.
- 3B. Squamous cell carcinoma.
- Etiology of peptic ulcer.
- 3D. Primary tuberculosis.
- 3E. Difference between benign and malignant tumours.
- 3F. Haemophilia.

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

SECTION 'B': MICROBIOLOGY: 40 MARKS

4. Define infection. Discuss various sources on infection. Add a note on carriers.

(1+4+3 = 8 marks)

 Name medically important clostridia. Describe pathogenesis and laboratory diagnosis of gas gangrene.

(2+3+2=7 marks)

- 6. Write short notes on any FIVE.
- 6A. Dermatophytes.
- 6B. Pathogenesis of rabies.
- 6C. Antimicrobial susceptibility tests.
- 6D. Chemical disinfectants.
- 6E. Anaphylaxis.
- 6F. Significant bacteruria.

 $(5\times5=25 \text{ marks})$

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SECOND YEAR B.P.T. DEGREE EXAMINATION - AUGUST 2006

SUBJECT: PHARMACOLOGY (COMMON FOR BOTH OLD & NEW REGULATIONS)

Thursday, August 17, 2006

Time: 11/2 Hrs.

Max. Marks: 40

Classify non-opioid analgesics. Describe two pharmacological actions of any one NSAID
along with the corresponding therapeutic applications (uses). Add a note on the differences
between opioid and non-opioid analgesics.

(4+(2+2)+2 = 10 marks)

- Write the advantages and disadvantages of sublingual route of drug administration. Give two
 examples.
- 2B. Define biotransformation of drugs. Explain two chemical reactions with an example for each.
- 2C. Enumerate two drugs used in bronchial asthma with the MOA of any one of them.

$$(2+(1+1)+(1+1) = 6 \text{ marks})$$

- 3A. Enlist two drugs from different groups used in angina pectoris. Write pharmacological basis of using propronalol in angina pectoris.
- 3B. Explain two clinically useful pharmacological actions of atropine.
- Sulfonylureas are useful in NIDDM and not in IDDM. Explain.

$$(2+(1+1)+(1+1) = 6 \text{ marks})$$

- 4A. Write briefly on intravenous anesthetics.
- 4B. Explain four uses of dexamethasone.
- 4C. Explain the M.O.A of digoxin in C.C.F. Add a note on adverse effect.

$$(2+(\frac{1}{2}\times 4)+(1+1)=6 \text{ marks})$$

- 5A. Write briefly on drug synergism.
- 5B. Write the MOA and uses of penicillin G.

(3+(1+2) = 6 marks)

- 6A. Explain the uses and adverse effects of gentamicin.
- 6B. Write briefly on rifampicin.

(3+3 = 6 marks)

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SECOND YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: EXERCISE THERAPY II (NEW REGULATION)

Friday, August 18, 2006

Time: 3 hrs.

Max. Marks: 80

- Answer ALL questions. Illustrate with clear diagrams wherever applicable.
- Explain in detail the arthrokinematics of the knee joint under the following sub captions: flexion/extension, locking/unlocking and axial rotation.

(4+4+2 = 10 marks)

2. What is postural drainage? Mention the contraindications for postural drainage. Illustrate postural drainage with a diagram for all the broncho pulmonary segments of right lower lobe.

(2+3+5 = 10 marks)

- Write brief answers:
- 3A. Explain the extensor mechanism of the digits.

(5 marks)

3B. Discuss the adjuncts of stretching.

(5 marks)

Describe briefly about Pursed Lip Breathing and Glosso pharyngeal Breathing

 $(2\frac{1}{2}+2\frac{1}{2}=5 \text{ marks})$

3D. Classify breath sounds and add a note on each.

(5 marks)

Explain active and passive insufficiency with an example.

 $(2\frac{1}{2}+2\frac{1}{2}=5 \text{ marks})$

3F. Explain gluteus medius and gluteus maximus gait.

 $(2\frac{1}{2}+2\frac{1}{2}=5 \text{ marks})$

3G. Explain briefly the principles of Proprioceptive Neuromuscular facilitation.

(5 marks)

3H. Discuss the frontal and sagittal plane analysis of posture.

(5 marks)

- 4. Short answers:
- 4A. Mention the gadgets used for strengthening exercises.
- 4B. What are the type of stretching?
- 4C. Classify breathing exercises.
- 4D. What are the types of muscle contraction?
- 4E. What is windlass mechanism?
- 4F. What are the possible locations of Bronchial breath sounds in the chest wall?
- 4G. What is rhythmic stabilization?
- 4H. Mention the types of walking aids.
- Name any two anatomic pulleys.
- 4J. What are the types of traction?

 $(2\times10 = 20 \text{ marks})$

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SECOND YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006 SUBJECT: ELECTROTHERAPY (NEW REGULATION)

Saturday, August 19, 2006

Time: 3 Hrs.

Max. Marks: 80

Answer ALL the questions.

1. Essay questions:

1A. Define constant Galvanism. Describe in detail the polar and non-polar effects of constant galvanic current. Add a note on ionotophoresis.

(2+5+3 = 10 marks)

1B. Define UVR. Describe the physiological effects of UVR. Add a note on PUVA therapy.

(1+6+3 = 10 marks)

2. Short answers:

- 2A. Properties of high frequency currents.
- 2B. Pattern of heating of tissue with SWD.
- 2C. Skin impedance of low, medium and high frequency currents.
- 2D. Low TENS and the mechanism of pain modulation.
- 2E. Physiological effects of LASER.
- 2F. Non thermal physiological effects of ultrasound and its therapeutic uses.
- 2G. Potential dangers in microwave diathermy and its preventive measures.
- 2H. Production of non luminous IRR.

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

Brief answers:

- 3A. Transformer.
- 3B. Galvanic rash.
- 3C. Eddy current.
- Chronaxie.
- 3E. Lewis hunting reaction.
- 3F. Electromagnetic spectrum with illustration.
- 3G. Micromassage.
- 3H. Motor point.
- 3I. Dielectric constant.
- 3J. E 3 dose in UVR therapy.

 $(2 \times 10 = 20 \text{ marks})$

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SECOND YEAR B.P.T. DEGREE EXAMINATION – AUGUST 2006

SUBJECT: PSYCHOLOGY

(NEW REGULATION)

Monday, August 21, 2006

Time: 3 Hrs.

Max. Marks: 80

- Answer any FOUR questions from Section 'A' and any FOUR questions from Section 'B'.
- All questions carry equal marks.

SECTION - A

- Outline any two-personality theories and emphasize psychodynamic theory.
- 2. How do the bonds of attachment form and what are the origins of attachment?
- 3. How do we tend to explain others' behaviour and our own behaviour?
- Describe clinical and testing methods and highlight their merits and demerits.
- 5. Write briefly on TWO of the following:
- 5A. Group interaction.
- 5B. Intelligence tests.
- 5C. Creativity.

SECTION - B

- 6. Describe ICD 10 and DSM IV classification of mental disorders.
- 7. What are neurotic disorders? Discuss the types of neurotic disorders.
- 8. What is counseling? Describe the nature and goals of counseling.
- 9. Discuss the factors that help human growth and development.
- 10. Write briefly on TWO of the following:
- 10A. Substance use disorders.
- 10B. Desensitization.
- 10C. Personality assessment.