No.

MANIPAL UNIVERSITY FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: MEDICINE (NEW REGULATION)

Tuesday, June 08, 2010

Time: 10:00-13:00 Hrs Maximum Marks: 80

 Define and classify diabetes mellitus. Enumerate the acute and chronic complications of diabetes mellitus. Discuss the management of diabetic ketoacidosis.

(2+4+4 = 10 marks)

- 2. Write short notes on any SIX of the following:
- 2A. Clinical features of Mitral Regurgitation.
- 2B. Porto Systemic Encephalopathy [Hepatic Coma].
- 2C. Enumerate the Liver Function Tests.
- 2D. Clinical Features and Treatment of Acute Myeloid Leukemia.
- 2E. Opportunistic Infections in AIDS.
- 2F. Physical Effects of Alcohol.
- 2G. Clinical Features of Vitamin B12 Deficiency.
- 2H. Complications of Cirrhosis of Liver.

 $(5\times6=30 \text{ marks})$

 Enumerate the causes of pleural effusion. Discuss the Clinical features, diagnosis and management of tubercular effusion.

(2+2+3+3 = 10 marks)

- 4. Write short notes on any SIX of the following:
- 4A. Pulmonary function tests.
- 4B. Pyrexia of unknown origin.
- 4C. Chronic hepatitis.
- 4D. Clinical features of chronic renal failure.
- 4E. Iron Deficiency anaemia.
- 4F. Clinical features of poisonous snake bite.
- 4G. Hyperkalemia.
- 4H. Cushing's disease.

 $(5\times6 = 30 \text{ marks})$



Reg. No.			
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MANIPAL UNIVERSITY FOURTH YEAR B.P.T. DEGREE EXAMINATION – JUNE 2010

SUBJECT: SURGERY (NEW REGULATION)

Thursday, June 10, 2010

Time: 10:00-13:00 Hrs Maximum Marks: 80

SECTION "A": CARDIOVASCULAR AND THORACIC SURGERY: 40 MARKS

 Discuss chest trauma with emphasis on life threatening injuries. Enumerate the indications and post-operative care of intercostal drainage.

(10 marks)

Describe the risk factors of coronary artery disease. Discuss in detail coronary artery bypass graft.

(10 marks)

- 3. Write short notes on any TWO:
- 3A. Discuss pulmonary tuberculosis with an emphasis on surgical interventions required.
- 3B. Discuss indications for surgery and surgical options in mitral valve disease.
- 3C. Discuss surgical management of peripheral vascular disease.

 $(10\times2=20 \text{ marks})$

SECTION "B": GENERAL SURGERY: 40 MARKS

 Define and classify wounds. Discuss the process of wound healing. Describe the phases of scar formation and add a note on ideal scar.

(10 marks)

Define shock. Discuss various types of shock. Describe clinical monitoring and treatment of shock.

(10 marks)

- 6. Write short notes on any FOUR:
- 6A. Discuss types of Regional anaesthesia
- 6B. Discuss Systemic Inflammatory Response Syndrome (SIRS)?
- 6C. Describe types of abdominal incisions.
- 6D. Discuss management of anal incontinence.
- 6E. Discuss Glaucoma.

 $(5\times4 = 20 \text{ marks})$

Reg. No.

MANIPAL UNIVERSITY

FOURTH YEAR B.P.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: COMMUNITY MEDICINE AND SOCIOLOGY

(NEW REGULATION) Saturday, June 12, 2010

Time 10:00-13:00 Hours

Maximum Marks: 80

- Answer ALL questions.
- Answer SECTION 'A' and SECTION 'B' in TWO separate answer books.

SECTION 'A': COMMUNITY MEDICINE: 40 MARKS

- 1A. Discuss epidemiology of Leprosy.
- 1B. Mention the deformities in Leprosy.
- Discuss the scope of rehabilitation in a leprosy patient.

(5+2+3 = 10 marks)

- 2A. Define pneumoconiosis.
- 2B. Mention different pneumoconiosis, with their causative factors.
- 2C. Describe engineering methods of prevention of them.

(1+4+5 = 10 marks)

3. Write short notes on:

- 3A. Different modes of disease prevention.
- Enumerate nutritional deficiency disorders.
- Write an overview of services provided to mothers in Reproductive and Child Health (RCH) Program.
- 3D. Discuss briefly health care system in India.

 $(5\times4 = 20 \text{ marks})$

SECTION 'B': SOCIOLOGY : 40 MARKS

4. What are norms? Explain the importance of social norms.

(2+8 = 10 marks)

 Name any four problems of Indian society. Discuss the causes and suggest remedies for any two.

(2+4+4 = 10 marks)

6 The knowledge of culture is helpful in the treatment of patients- Discuss.

(10 marks)

- 7. Write short notes on the following:
- 7A. Life style and health.
- 7B. List the legislations related to health of the workers and the disabled.

(5+5 = 10 marks)



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MANIPAL UNIVERSITY

FOURTH YEAR B.P.T DEGREE EXAMINATION - JUNE 2010

SUBJECT: RESEARCH METHODOLOGY AND BIOSTATISTICS (NEW REGULATION)

Tuesday, June 15, 2010

Time: 10:00-13:00 Hrs.

Max. Marks: 80

Answer ALL questions.

- 1A. Explain the meaning of dependent and independent variable with example.
- Write briefly the steps involved in research process.

(5+5 = 10 marks)

- 2A. Describe Systematic random sampling.
- 2B. Enumerate the merits and demerits of systematic random sampling.
- 2C. List the advantages of sampling.

(4+(2+1)+3 = 10 marks)

3A. Blood serum cholesterol levels of 10 subjects are as under:

240 260

290

245

255

285

275 263

277

250

Calculate its Mean and standard deviation.

3B. Discuss the interpretation of Correlation Coefficient.

(6+4 = 10 marks)

- 4A. Explain the terms Incidence and prevalence.
- 4B. Describe the characteristics of case series and cross sectional studies.

(4+(3+3) = 10 marks)

- 5A. What do you mean by specific death rates? State their uses.
- 5B. Define health information system. List the uses of health information system.

(5+5 = 10 marks)

6. Write short note on:

- 6A. Scales of measurement.
- Skewness and Kurtosis.
- 6C. Normal distribution.
- Reliability and validity.
- Bar diagram and histogram.

Sample registration system.

 $(5\times6=30 \text{ marks})$

Reg. No.

MANIPAL UNIVERSITY

FOURTH YEAR B.P.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: PHYSIOTHERAPY IN CARDIOPULMONARY AND GENERAL CONDITIONS (NEW REGULATION)

Thursday, June 17, 2010

Time: 10:00-13:00 Hrs

1. Long Answers:

- 1A. Define cardiac rehabilitation. Write indications for cardiac rehabilitation. Discuss physiotherapy management for 10 year old girl who has undergone atrial septal defect closure
- Define Chronic Obstructive Pulmonary Disease. Discuss acute and long term rehabilitation of a patient with Chronic Obstructive Pulmonary Disease.

((2+8)+(2+8) = 20 marks)

Maximum Marks: 80

2. Short Notes:

- 2A. Write the causes, clinical features and physiotherapy management of bronchiectasis.
- 2B. Enumerate the types of mechanical ventilators and discuss the different modes of ventilation.
- 2C. Discuss the postoperative management of right upper lobectomy.
- 2D. Write on anatomical and biomechanical differences in respiratory system of neonate.
- Discuss indications for pulmonary function test and add a note on PFT changes in restrictive lung disease.
- 2F. Draw a neat diagram and position for the following segments:
 - right posterior segment of upper lobe
 - ii) left lower lobe posterior segment
- 2G. Discuss the postoperative physiotherapy management for abdominal surgery.
- 2H. Describe the indications, contraindications and complications of incentive spiromentry.

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

3. Brief Notes:

- 3A. Enumerate the reference values for arterial blood gas parameters.
- 3B. Write two hazards of smoking.
- 3C. What is ankle brachial index.
- 3D. ECG presentation in inferior wall myocardial infarction.
- 3E. How many number of joints and muscles are there in thorax and chest wall?
- Name two ways to deliver oxygen in neonates.
- 3G. Name the type of joint -manubriosternal and costovertebral joint.
- 3H. Name four sub maximal exercise testing protocols.
- 31. Write four advantages of upright position.
- 3J. Write four contraindications postural drainage.

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

Reg. No.		
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MANIPAL UNIVERSITY

FOURTH YEAR B.P.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: COMMUNITY BASED REHABILITATION (NEW REGULATION)

Saturday, June 19, 2010

Time: 10:00-13:00 Hrs Maximum Marks: 80

& Answer ALL questions:

1. Long Answers:

Write the Physiotherapy care for patient with motor neuron disease.

(10 marks)

1B. What is Repeated Stress Injury? Explain the role of Physiotherapy in its prevention and management.

(2+8 = 10 marks)

2. Brief Answers:

- 2A. Epidemiology of the leprosy.
- 2B. Explain the details of ESI Act.
- 2C. Write in detail any TWO theories of aging.
- 2D. Describe the methods that can be undertaken for prevention of obesity.
- 2E. Describe the role of Non Government Organisations.
- 2F. Explain the role of postnatal care.
- 2G. Explain the management for CTEV.
- 2H. Explain the chronic adaptations to exercise in elderly.

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

3. Short Answers:

- 3A. Mention FOUR advantages of exercise in post-menopausal women.
- 3B. Mention FOUR roles of a social worker in community rehabilitation.
- 3C. Mention FOUR advantages of institution based rehabilitation.
- 3D. Mention principles of foot care in Diabetes.
- 3E. Differentiate between osteopenia and osteoporosis.
- 3F. Name the FOUR complications during labour.
- Name the levels of disease prevention.
- 3H. Define work hardening.
- 31. Mention FOUR ergonomic advices for degenerative arthritis of the knee.
- Define incontinence.

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



Reg. No.

MANIPAL UNIVERSITY

FOURTH YEAR B.P.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: EXERCISE PHYSIOLOGY AND ELECTRODIAGNOSIS (NEW REGULATION)

Monday, June 21, 2010

Time: 10:00-13.00 Hrs

Maximum Marks: 80

- Answer all questions.

SECTION – A – EXERCISE PHYSIOLOGY

1. Essay questions:

What are the chronic adaptations of the cardiovascular, respiratory and thermoregulatory systems to exercise?

(4+3+3 = 10 marks)

2. Brief answers:

- 2A. Energy expenditure measurement.
- 2B. Management of chronic fatigue.
- 2C. Write the Bruce protocol.
- 2D. Ergogenic aids of sports performance.

 $(5\times4 = 20 \text{ marks})$

3. Short answers:

- 3A. Define VO2 max.
- 3B. Define anaerobic threshold.
- Define physical work capacity.
- 3D. Write any FOUR uses of water.
- 3E. Define Power.

 $(2 \times 5 = 10 \text{ marks})$

SECTION -B - ELECTRODIAGNOSIS

4. Essay questions:

Write the indications of Nerve conduction velocity studies and write the normal values.

(10 marks)

Brief answers:

- 5A. Explain stages of EMG activity with types of abnormal potentials.
- 5B. Mechanism and procedure of EMG biofeedback.
- 5C. Write about H reflex.
- 5D. Write about blink reflex.

 $(5\times4=20 \text{ marks})$

6. Short answers:

- 6A. Resting membrane potential.
- 6B. Define F wave.
- 6C. Define Neurotmesis.
- 6D. Define Chronaxie.
- 6E. Write any FOUR disadvantages of nerve conduction studies.

 $(2\times5 = 10 \text{ marks})$



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MANIPAL UNIVERSITY

FOURTH YEAR B.P.T. DEGREE EXAMINATION - JUNE 2010

SUBJECT: ETHICS/ADMINISTRATION AND TEACHING SKILLS (NEW REGULATION)

Wednesday, June 23, 2010

Time: 10:00-11.30 Hrs Maximum Marks: 40

1. Essay:

Write in detail the ethical principles declared by WCPT.

(10 marks)

2. Short notes:

- 2A. Basic principles of bioethics as postulated by Thomas Beauchamp.
- 2B. Consumer Protection Act.
- 2C. Needs of documentation.
- 2D. Requirements need to be met by an institution to get affiliation from IAP.

 $(5\times4=20 \text{ marks})$

3. Brief answer:

- 3A. What is autonomy?
- 3B. Name two organizations that fund research works.
- 3C. What is distributive justice?
- 3D. Various modes of documentation.
- 3E. Name the modes of public education.

 $(2\times5 = 10 \text{ marks})$

