

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH
BACHELOR OF PHYSIOTHERAPY (B.P.T)
FOURTH SEMESTER EXAMINATION - JUNE 2024

Time: 3 Hours

Max Marks: 80 Marks

EXERCISE THERAPY - II
PAPER CODE : 2434110114

General instructions:

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe about the Mobilization and Manipulation, its indications, limitations, contraindications and precautions, Grades and applications of Mobilization technique to knee joint.
- Q.2 Describe about the Hydrotherapy, its Goals and Indications, Precautions and Contraindications, Properties of water, Therapeutic Exercises in Hydrotherapy, Special equipment's used in hydrotherapy.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about procedures of Diaphragmatic Breathing and Pursed-Lip Breathing.
- Q.4 What are the complications after a period of prolonged immobilization related to Neurological, Musculoskeletal, Cardiovascular and gastrointestinal systems.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Explain about Rhythmic Stabilization.
- Q.6 What is Isokinetic Exercise?
- Q.7 Write about Postural Training.
- Q.8 Explain Gait Training in Parallel Bars.
- Q.9 Write about IASTM and reflexology.
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ELECTROTHERAPY-II
PAPER CODE : 2434110115

General instructions:

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- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe about the SWD and Production of SWD, Types of SWD Electrode, Placement & Spacing of Electrodes, physiological and therapeutic effects, indications and contraindications.
- Q.2 Define ultrasound and Piezoelectric effects explain about ultrasound Fields: Near field, Far field, Half value distance, Attenuation and Coupling Media.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Define Microwave Diathermy along with Dosage of Microwave Diathermy, Physiological & Therapeutic effects of Microwave Diathermy.
- Q.4 Explain Principles of application, Indications and Contraindications, Physiological effects of long wave diathermy.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Explain Chronaxie & Rheobase.
- Q.6 Method of application of LASER.
- Q.7 Explain Principle of Production of IFT.
- Q.8 Russian Current.
- Q.9 Explain Pulsed Electromagnetic Energy.

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FIRST AID & EMERGENCY CARE
PAPER CODE : 2434110117

General instructions:

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 What is casualty? Mention assessment of sick or injured during casualty along with Head-to-toe examination.
- Q.2 Describe about the emergency condition of asphyxia, drowning, shock, wound and bleeding, Injuries of the soft and dense tissue, Injury of joint and bone, Falls and Hanging with management.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about the community emergencies and mention the community resources.
- Q.4 Explain about the heat stroke and first aid management of heat stroke.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 What is man-made disaster?
- Q.6 Mention the ACLS basic guidelines.
- Q.7 Explain about principles of bandaging.
- Q.8 How to perform CPR-Mouth to mouth?
- Q.9 Explain aims and importance of First Aid.
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PATHOLOGY
PAPER CODE : 2434110118

General instructions:

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1** Describe about the neoplasm along with characteristic features, benign and malignant tumor, spread of tumor and cancer pain syndrome.
- Q.2** Describe about the anaemia. What are the causes, clinical features and management of anaemia?

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3** Explain about the Etiopathogenesis and gross pathology Paget's disease.
- Q.4** Explain about the types, etiopathogenesis and diagnosis of Diabetes Mellitus.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5** What is pathology of Muscular dystrophy.
- Q.6** Etiopathogenesis of Meningitis.
- Q.7** Brief outline of Psoriasis.
- Q.8** What is Embolism?
- Q.9** Explain hypertrophy and atrophy.
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Time: 3 Hours

Max Marks: 80 Marks

PHARMACOLOGY
PAPER CODE : 2434110116

General instructions:

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- Please write the correct paper code.
- Be to the point.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe the General considerations of Sympathetic and Parasympathetic Systems along with cholinergic, anticholinergic drugs and peripheral muscle relaxants.
- Q.2 Describe in detail about Non-narcotic Analgesics and Nonsteroidal Anti- Inflammatory Drugs.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about the Pharmacology of the geriatric Population and also write about adverse effects of special concern in the Elderly.
- Q.4 Explain about chemotherapy and Broad-spectrum antibiotics.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Name the drugs used in treatment of diabetes mellitus.
- Q.6 What are the drugs used in treatment of obstructive airway Diseases?
- Q.7 Antiepileptic drugs.
- Q.8 Routes of drug administration.
- Q.9 Calcium channel blockers.
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