

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

Max Marks: 80 Marks

Time: 3 Hours

EXERCISE THERAPY - I
PAPER CODE : 2433110110

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

- Q.1 Describe about the effect of exercise on neuromuscular, cardiovascular, and respiratory system.
Q.2 Describe about the Resisted Exercise with its Definition, principles, indications, contraindications, precautions & techniques, effects and uses.

2 X 20 = 40 Marks

SHORT NOTE QUESTIONS

- Q.3 Explain about relaxation with Indications of relaxation, Methods & techniques of relaxation with Principles & uses.
Q.4 Explain Principles and aims of MMT. How will you perform MMT of Hamstring muscle.

2 X 10 = 20 Marks

SHORT ANSWER QUESTIONS

- Q.5 Measurement of lower limb length.
Q.6 Name any 4 derived positions with importance and diagram.
Q.7 Write about tests for Co-ordination.
Q.8 Types of levers.
Q.9 Write about Nagi model of disability

5 X 4 = 20 Marks

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ELECTROTHERAPY - I
PAPER CODE : 2433110111

General instructions:

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- 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 the Galvanic Current with its types, physiological & therapeutic effects, indication and contraindication.
- Q.2 Define Pain, Theories of Pain and Pain Gate Control theory in detail.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Define UVR, Types of UVR, UVR generators, Indications, contraindications, Dangers and Dosages for different therapeutic effects.
- Q.4 Explain Contrast Bath and its Methods of application, Therapeutic uses, Indications & Contraindications.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Explain Whirl Pool Bath.
- Q.6 Method of application of Fluidotherapy.
- Q.7 Explain Transformer
- Q.8 Electromagnetic induction
- Q.9 Transmission of electrical energy through solids, liquids, gases and vacuum.

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BIOMECHANICS AND KINESIOLOGY II

PAPER CODE : 2433110112

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 the biomechanics and kinesiology of Knee complex.
- Q.2 Describe in detail about posture. What are the effects of posture on age, pregnancy, occupation and recreation?

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about the Movement Analysis of ADL activities like sitting-to standing, lifting, various grips, pinches.
- Q.4 Structure and function of the wrist joint.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Name the muscles of the vertebral column with function.
- Q.6 What are the bony abnormalities of the femur.
- Q.7 Biomechanics of stair case climbing.
- Q.8 Movements at intervertebral joint of lumbar region.
- Q.9 Explain about the superior and inferior radioulnar joints.