

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH  
BACHELOR OF PHYSIOTHERAPY (B.P.T)  
III<sup>rd</sup> SEMESTER EXAMINATION

Time: 3 Hours

Max Marks: 80 Marks

EXERCISE THERAPY - I  
PAPER CODE : 2333110110

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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. No extra copy shall be provided.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe about the Strating position, its types with muscle work, effect and uses.
- Q.2 Describe about the passive movements, principles of giving passive movement, its indication, contraindication and techniques.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about Goniometer, its types, parts, uses, principles and limitations.
- Q.4 Explain Principles and aims of MMT. How will you perform MMT of Deltoid muscle.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Measurement of forearm girth.
- Q.6 Relaxation.
- Q.7 COG and LOG
- Q.8 Second order of lever
- Q.9 Parts of suspension therapy
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Time: 3 Hours

Max Marks: 80 Marks

ELECTROTHERAPY - I  
PAPER CODE : 2333110111

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General instructions:

- All questions are compulsory.
- Explain with diagrams where required.
- The number on the right indicates full marks.
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- Be to the point. No extra copy shall be provided.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe the Faradic current, its modification, Physiological effect, indication, contraindication and dangers.
- Q.2 Define TENS, types of TENS, effect of TENS, indication, contraindication and doses parameter.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about IRR, types of IRR generator, its physiological and therapeutic effect.
- Q.4 Explain in detail about cryotherapy.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Hydrocollator pack.
- Q.6 Method of application of Therapeutic wax.
- Q.7 Ohm's law
- Q.8 Condenser
- Q.9 Types of Transformers
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Time: 3 Hours

Max Marks: 80 Marks

BIOMECHANICS AND KINESIOLOGY II  
PAPER CODE : 2333110112

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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. No extra copy shall be provided.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe the biomechanics and kinesiology of shoulder complex.
- Q.2 Describe in detail about kinetics and kinematics of posture.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain about the biomechanics of vertebral column muscles.
- Q.4 Structure and function of the elbow joint.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Types of Grips.
- Q.6 Patellofemoral joint.
- Q.7 Biomechanics of sitting to standing
- Q.8 Movements at intervertebral joint of cervical region
- Q.9 Pes cavus and pes planus
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Time: 3 Hours

Max Marks: 80 Marks

MICROBIOLOGY  
PAPER CODE : 2333110113

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. No extra copy shall be provided.

LONG ESSAY QUESTIONS

2 X 20 = 40 Marks

- Q.1 Describe about the structure and function of immune system and immune response.
- Q.2 Describe about the classification and characteristics of virus.

SHORT NOTE QUESTIONS

2 X 10 = 20 Marks

- Q.3 Explain culture and sensitivity test.
- Q.4 Explain about the sterilization and disinfection.

SHORT ANSWER QUESTIONS

5 X 4 = 20 Marks

- Q.5 Staphylococcus.
- Q.6 HIV.
- Q.7 Hepatitis
- Q.8 Hospital acquired infection
- Q.9 Medical Mycology