

Question Paper

Exam Date & Time: 05-Mar-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER BPT DEGREE EXAMINATION - MARCH 2019
SUBJECT: BPT 101 - BASICS OF EXERCISE THERAPY - I
(2016 RV SCHEME)

Tuesday, March 05, 2019 (14.00 - 17.00)

Answer ALL questions.

Draw diagrams wherever necessary.

Marks: 100

Duration: 180 mins.

- 1) Classify cortical sensations and Explain in detail the technique involved in performing them. (20)
(5+15 = 20 marks)
- 2) Explain the principles of Breathing exercises. Write ANY FIVE indications of breathing exercises. Describe in detail the technique involved in performing the various segmental breathing exercises. (20)
(5+5+10 = 20 marks)
- 3) Classify normal breath sounds along with its features. (10)
- 4) Describe ANY FIVE types of equipment used as resistances in therapeutic gymnasium. (10)
- 5A) Discuss the mechanism of anteroposterior pelvic tilts. (5)
- 5B) Principles of home program. (5)
- 5C) Discuss the muscle work involved in kneeling as fundamental position. (5)
- 5D) Explain the criteria for the organisation of group exercises. (5)
- 5E) Write about any TWO additional techniques of general relaxation. (5)
- 5F) Discuss the importance of reflex testing. (5)
- 6A) List **ANY TWO** indications for chest expansion. (2)
- 6B) Mention the types of equilibrium. (2)
- 6C) Define blood pressure. (2)
- 6D) Define dermatome. (2)
- 6E) Mention **ANY TWO** indications for postural drainage. (2)

-----End-----

Question Paper

Exam Date & Time: 06-Mar-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER BPT DEGREE EXAMINATION - MARCH 2019
SUBJECT: BPT 103/BPT 107 - BIOPHYSICS AND BASICS OF ELECTROTHERAPY
(2016 RV/2016 SCHEME)

Wednesday, March 06, 2019 (14.00 - 17.00)

Answer ALL questions.

Marks: 100

Duration: 180 mins.

- 1) Describe the linear and concurrent force systems. Write a note on resolution of forces. (20)
(15+5 = 20 marks)
- 2) What are the physiological and therapeutic effect of heat? What are the contraindication of heat therapy? Add a note on contrast bath. (20)
(6+6+4+4 = 20 marks)
- 3) Explain with help of stress strain curve the properties of strength, stiffness and brittle. (10)
- 4) Classify joints with an example of each. (10)
(5+5 = 10 marks)
- 5A) Describe the types of muscle work. (5)
- 5B) Principles of a condenser. (5)
- 5C) Discuss the factors affecting the resistance of a conductor. (5)
- 5D) Management of electric shock. (5)
- 5E) Elaborate the types and uses of chock coil. (5)
- 5F) Pain Gate Mechanism. (5)
- 6A) What is electrical potential? (2)
- 6B) Draw a neat labelled diagram of a triode valve. (2)
- 6C) Define inverse square law. (2)
- 6D) Define electromagnetic induction. (2)
- 6E) What is mechanical advantage? (2)

-----End-----