

Total No. of Printed Pages – 2

**SS/MPT-I/P-II/02-22**

**2022**

( February )

BIOMECHANICS, EXERCISE PHYSIOLOGY &  
ELECTROPHYSIOLOGY  
(MPT Part-I)

Paper II

Full Marks : 100

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

Answer **all** questions

1. Long Essay:

2x20=40

(a) Discuss the cardiovascular response to aerobic exercise and add a note on oxygen intake and oxygen debt.

(b) Write in details regarding exercise prescription for health and fitness for 35 years old female IT professional with height 5.2 feet and weight 84 kg.

( Turn Over )

( 2 )

2. Short Essay:

6x10=60

- (a) Explain general properties of connective tissue. Discuss clinical application of Creep and Hysteresis.
- (b) Explain the types of energy systems.
- (c) Discuss in details the health risk associated with hyperbaric conditions.
- (d) Muscle plasticity in response to the electric stimulation.
- (e) Describe the indication for use of Faradic type current.
- (f) Biomechanics of Respiration.

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