



NBW-M2011136

Seat No. _____

Master of Physiotherapy Examination

April/May – 2017

Basic Sciences

(New Course)

Time : 3 Hours]

[Total Marks : 100

Instructions :

- (1) Answer should be specific to the questions.
- (2) Draw diagrams wherever it is necessary.
- (3) Answer should be supported with references and evidences.
- (4) Answer to all questions.
- (5) Numbers on the right indicate full marks.

I. Long Essay :

2×20=40

1. Enumerate the various advanced clinical electrophysiological testings. And add note on normal and abnormal EMG wave with interpretations.
2. Describe the material properties of the ligaments and mensici. And add note on pathomechanics of medial meniscal injury.

II. Short Essay :

6×10=60

3. Role, principles and importance of ethical committee in research.
4. Write in detail about Long term aerobic exercise training and its physiological adaptations.

Define fatigue and types of fatigue. Write about various methods of measuring and calculating the levels of fatigue. And add note on the importance of recovery following exercise training.
5. Somato Sensory Evoked Potential Study [SSEP].
6. Processing and analysis of data in research.
7. Seating Ergonomics.
8. Write in detail about applied biomechanical principles in CTEV splint.