

QP Code: 211376

Reg. No.....

**Second Year MPT Degree Supplementary Examinations June 2022
Paper I – Applied Basic Sciences**

(2016 Scheme)

(Common for all Specialties)

Time: 3 hrs

Max. Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagram wherever necessary*

Essays

(2x20=40)

1. Discuss the basic principles and methods of research designs.
2. Explain about the following:
 - Aerobic power training
 - Anaerobic power training
 - Special aids
 - Sport training
 - Obesity and weight control

Short Notes

(10x6=60)

3. Energy delivery of endocrine system.
4. Biomechanical examination of foot.
5. Injury prevention and ergonomics.
6. Exercise and ageing
7. Job task analysis
8. Neuro muscular fatigue
9. Role of physiotherapy in industrial set up.
10. Work capacity analysis.
11. Discuss the kinematics and kinetics during overhead activity.
12. Pathomechanics of vertebral column.
