

QP Code: 211376

Reg. No.....

**Second Year MPT Degree Regular/Supplementary Examinations  
December 2024  
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*

**Essays**

**(2x20=40)**

1. Describe the cardio vascular adaptation to endurance exercise at different altitudes
2. Explain the effect of excessive lumbar lordosis on low back and hip joint

**Short Notes**

**(10x6=60)**

3. Explain the importance of research in physiotherapy with types and purpose
4. Explain the biomechanism of Shoulder complex
5. Assessment of Posture with common malalignment seen
6. Process of publishing and presenting research
7. Explain functional capacity evaluation
8. Purpose of job analysis with its type
9. Ergonomics – A process for protecting workers
10. Aerobic and Anaerobic energy system of our body
11. Special aids in performance and conditioning
12. Define Acclimatization with technique of doing the same at high altitude

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