



TEERTHANKER MAHAVEER UNIVERSITY

(Established under Govt. of U. P. Act No. 30, 2008)

Delhi Road, Moradabad (U.P.)

SYLLABUS FOR TMU RESEARCH APTITUDE TEST IN ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

The syllabus for TMU Research Aptitude Test (TRAT) in Orthodontics and Dentofacial Orthopaedics is divided in two parts viz. Part A and Part B as described below:

PART – A

Part A of the TRAT shall be designed to assess the research skills/apptitude of the candidate consisting of questions from the following areas:

- 1. Research Methodology:** meaning, characteristics, and ethical issues in research; types of research; research methods.
- 2. Logical Reasoning:** arguments, deductive and inductive research; logical and Venn diagram; inferences; analogies.
- 3. Data Interpretation:** interpretation of data; mapping and analysis of data, tools for data analysis; quantitative and qualitative research.
- 4. General Awareness about Basic Science:** basic science up to the level of SSC.
- 5. Mathematical Reasoning:** number series, letter series, codes; relationships, classification.

PART – B

Part-B of RAT is designed to assess the subject specific knowledge of the candidate covering the syllabus given as below:

- 1. Dentofacial Orthopaedics:**
 - Principles
 - Biomechanics
 - Appliance design and manipulation
- 2. My functional Orthodontics:**
 - Basic principles
 - Contemporary appliances
 - Case selection and evaluation of the treatment results
- 3. Cleft Lip and Palate Rehabilitation:**
 - Diagnosis and treatment planning
 - Mechanotherapy
 - Team rehabilitative procedures

4. Biology of Tooth Movement:

- Principles of tooth movements
- Applied histophysiology of bone
- Molecular and ultra cellular consideration in tooth movement