



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 ORAL AND MAXILLOFACIAL SURGERY

The syllabus for TMU Research Aptitude Test (TRAT) in Oral and Maxillofacial Surgery 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/aptitude 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:

Applied Basic Sciences: applied anatomy, physiology, biochemistry, general and oral pathology and microbiology and pharmacology

Minor Oral Surgery: principles of surgery: developing a surgical diagnosis, basic necessities for surgery, aseptic technique, incisions, flap design tissue handling, haemostasis, dead space management, decontamination and debridement, suturing, oedema control, patient general health and nutrition, impacted tooth, exodontias, local anaesthesia, general anaesthesia, maxillary sinus, preprosthetic surgery, dental implants, endodontic surgery, cysts of jaw, distraction osteogenesis, maxillofacial trauma, management of medical emergency, sutures and techniques, hemostasis.

Maxillofacial Surgery: salivary gland, TMJ disorders, oncology, orthognathic surgery, cleftlip and palate, orthognathic surgery, cryosurgery, laser surgery, bone grafting, cyst and tumors of jaw.

Aesthetic Facial Surgery: detailed knowledge of the structures of the face and neck including skin and underlying soft tissue , diagnosis and treatment planning of deformities and conditions affecting facial skin ,underlying facial muscles, bone, eyelids, external ear, surgical management of post acne scarring, facelift, blepharoplasty, otoplasty, facial bone recontouring, etc.

Craniofacial Surgery: basic knowledge of developmental anomalies of the face, head and neck , basic concepts in the diagnosis and planning of various head and neck anomalies including facial clefts, craniosynostosis, syndromes, etc., current concept in the management of craniofacial anomalies.