



# 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 PATHOLOGY & MICROBIOLOGY**

The syllabus for TMU Research Aptitude Test (TRAT) in Oral Pathology & Microbiology 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:

- 1.** Oral Genodermatosis.
- 2.** Genetics of Oral and Maxillofacial Diseases.
- 3.** Oral-cancer/pre-cancer.
- 4.** Dermatologic diseases.
- 5.** Oro-facial Pain and neuromuscular disorders including TMJ disorders.
- 6.** Microbial genetics and infections of oral and Para - oral regions.
- 7.** Tumor Markers.
- 8.** Tumor Immunology.

- 9.** Defense mechanism of the oral cavity.
- 10.** Bone Pathology.
- 11.** Oral Soft tissue tumors.
- 12.** Hematological disorders and Hematological malignancies.
- 13.** Neoplastic disorders and genetics of Salivary gland tumors.
- 14.** Frozen sections and cytological smears.