

Part I Degree Supplementary Examinations, December 2012

**Paper IV - Branch V: Orthodontics and Dentofacial Orthopedics**

**Time: 3 hrs**

**Max marks: 100**

- Answer **all** questions. Your answers should be specific to the questions asked.
- Illustrate your answers with relevant neatly labeled diagrams / tables / graphs wherever necessary.

**Part A – Research Methodology, Biostatistics, Dental Radiology, Emergency Medical Management and Ethics in Dentistry**

**Essay:** **(20)**

1. Enumerate various methods of collection of research data and describe the scales for measuring the data

**Short Essay:** **(3x10=30)**

2. Digital imaging
3. Allergies in orthodontics
4. Ethical responsibilities and professional conduct

**Part B-Applied Dental Materials**

**Essay:** **(20)**

5. Classify orthodontic wires. What are the properties of an ideal orthodontic wire and add a note on wire fracture

**Short Essay:** **(3x10=30)**

6. Indirect bonding materials
7. Ceramic brackets
8. Ni - Ti wires

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