

Table of Specification –PhD Science of Dental Materials Spring 2026

NUMS Entry Test

S. No	Topic	No. of MCQs
1	Ceramics <ul style="list-style-type: none"> • Fabrication techniques • CAD-CAM • Porcelain-fused-to-metal 	10
2	Metallurgy <ul style="list-style-type: none"> • Gold and Noble Metal Alloys • Base Metal Alloys • Steel and Wrought Alloys 	07
3	Polymers <ul style="list-style-type: none"> • Denture base polymers • Denture lining materials 	03
4	Impression Materials <ul style="list-style-type: none"> • Elastic impression materials • Non- Elastic impression materials 	07
5	Adhesive Bonding <ul style="list-style-type: none"> • Enamel Bonding • Dentin Bonding 	12
6	Composite resin and glass ionomer <ul style="list-style-type: none"> • Properties • Setting Characteristics 	10
7	Cements <ul style="list-style-type: none"> • Phosphoric acid based • Organometallics-chelate based • Polycarboxylates • Endodontics 	07
8	Dental Implants <ul style="list-style-type: none"> • Types • Osseo integration 	05
9	Tissue Engineering <ul style="list-style-type: none"> • Biomaterials and scaffold fabrication • Soft tissue engineering • Hard tissue engineering 	12
10	Characterization techniques <ul style="list-style-type: none"> • Microscopy • Spectroscopy • Mechanical • Biological 	12
11	Biostatistics Research ethics and scientific writing Research methodology	15
	Total	100