

Table of Specification –PhD Dental Materials- Spring 2024
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.	<ul style="list-style-type: none"> ○ Biostatistics ○ Research ethics and scientific writing ○ Research methodology 	15
Total		100