

February 2009

[KU 654]

Sub. Code : 4133

**FIRST B.D.S DEGREE EXAMINATION
(Modified Regulations – III)
Paper III– MATERIALS USED IN DENTISTRY**

Q. P. Code : 544133

Time : Three hours

Maximum: 100 Marks

Answer ALL questions.

I. Essays : **(2 x 20 = 40)**

1. Define polymerization of denture base resins and discuss its composition, physical and chemical stages.
2. Define a casting and discuss various types and mention the defects in casting.

II. Write Short notes on : **(10 x 6 = 60)**

1. Colloidal state.
2. Mercurial Toxicity.
3. Classification of alloy system.
4. Setting reaction of gypsum product.
5. Zinc Phosphate Cement.
6. Condensation Silicone.
7. Eutectic mixture.
8. Dentin bonding.
9. Cavity varnish.
10. Solid solution.

August 2009

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Answer **ALL** questions.

I. Essays : **(2 x 20 = 40)**

1. Discuss in detail strength of amalgam and factors affecting it.
What technical consideration will you have when using silver amalgam?
2. Classify ceramics. Write composition, methods of condensation and its recent advances.

II. Write Short notes on : **(10 x 6 = 60)**

1. Electroplated dies.
2. Luting cements.
3. Methods of soldering.
4. Poly ether.
5. Classify waxes and its various uses.
6. Dental ceramics.
7. Titanium.
8. Dental implants.
9. Gypsum bonded investments.
10. Eutectic alloys.
