

February 2010

[KW 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. Classify primary impression materials. Write in detail about the composition and manipulation of impression compound.
2. Classify Dental cements. Write the composition, manipulation and modifications of Zinc oxide Eugenol cement.

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

1. Investment materials.
2. Tray adhesives.
3. Soldering and welding.
4. Green strength.
5. Rake angle.
6. Tarnish and corrosion.
7. Modifications of glass ionomer cement.
8. Stress and strain.
9. Bisque stages of ceramic.
10. Polyether.

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August 2010

[KX 654]

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**(Modified Regulations – III)**

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**Time: Three hours**

**Maximum: 100 Marks**

**Answer ALL Questions**

**I. Essays:**

**2 x 20 = 40 Marks**

1. What is high copper amalgam? Enumerate the advantages over conventional silver amalgam alloy. What are the precautions followed during manipulation of Dental amalgam?
2. What is an Elastomer? Classify Elastomers. Write composition, chemistry of setting reaction and properties of addition silicone impression material.

**II. Write Short Notes on:**

**10 x 6 = 60 Marks**

1. Requisites of Solder.
2. Soft Reliners.
3. Cohesive gold foil.
4. Bonding of ceramic to metal.
5. Maxillofacial materials.
6. Uses of Dental Cements.
7. Polishing agents.
8. Casting machines.
9. Investment expansion.
10. 18.8 stainless steel.

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