

I.T.S DENTAL COLLEGE, HOSPITAL & RESEARCH CENTRE

47, Knowledge Park-III, Greater Noida

BDS 2nd Year (2012 Odd Batch)

First Internal Assessment Examination

Subject: Dental Material

- Attempt all questions
- Use separate sheet for Part A & Part B
- Draw neat and well labelled diagram wherever required

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47, Knowledge Park-III, Greater Noida

Time: 3 hrs
M.M. – [35]

PART - A

- Q. 1 Give the Composition & classification of Dental Ceramics. What are the various methods of strengthening ceramics? [10]
- Q. 2 Enumerate non-aqueous elastomeric impression materials. Discuss Addition Silicone impression material in detail. [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Gypsum Bonded Investment Material *Die Stone*
 - b) Zinc Oxide Eugenol Impression material
 - c) Imbibition & Syneresis

PART - B

MM: [35]

- Q. 1 What are denture base resins? Describe compression moulding & fluid resin techniques. [10]
- Q. 2 Enumerate physical & mechanical properties of dental materials. What is the clinical significance of color, Hardness & Thermal Conductivity? [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Difference between α & β hemihydrate
 - b) Biocompatibility of Dental Materials
 - c) Composition & setting reaction of Plaster of Paris

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