

Roll No.

(2035)

BDS I Year

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BDS Dental College Hospital & Research Centre
47, Knowledge Park-III, Greater Noida
5138

B. D. S. Examination, March 2005

DENTAL MATERIALS

(BDS-03)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions.

Part A

1. Describe the role of synthetic resins as :
 - (a) Denture base material
 - (b) Relining material
 - (c) Soft liners
 - (d) Tissue conditioners.
2. Classify impression materials. Discuss the composition manipulation and uses of the following :
 - (a) Composition impression material

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(2)

- (b) Zinc oxide eugenol impression paste.
- 3. Classify Gypsum products. Discuss the difference between setting and hygroscopic setting expansions in detail.

Part B

- 4. Classify Dental cements. Describe the following in brief :
 - (a) Insulating base
 - (b) Ca(OH)_2 lining
 - (c) Cavity varnish.
- 5. Classify dental casting alloys. Describe the composition and properties of metal ceramic alloy.
- 6. Write short notes on the following :
 - (a) Inlay wax.
 - (b) Abrasives
 - (c) Soldering.

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B.D.S. Examination, 2005

PAPER - III

DENTAL MATERIALS

(BDS-03)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions.

1. (a) Enumerate the physical and mechanical properties of Dental Materials. 2
- (b) What is the clinical significance of Colour; Hardness; and Thermal Conductivity. 6
2. Discuss :
 - (a) Soldering and Welding 2
 - (b) Shelf Life 2
 - (c) Zinc Oxide Eugenol Cement 2
 - (d) Blue Inlay Wax. 2

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3. Write short notes on the following :

- (a) Casting shrinkage 3
- (b) Stainless Steel 3
- (c) Unfilled Resins. 3

4. Discuss in detail the Composition, Properties and Manipulation of Dental Amalgam. 8

5. Write notes on the following :

- (a) Cavity Varnish 2
- (b) Polishing Agents 2
- (c) Compaction of Direct Filling Gold 2
- (d) Direct Bonding Materials / Composite resins 2

6. Classify Impression Materials. Discuss the Composition, Properties and Manipulation of Irreversible Impression Material. 9

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