

Roll No.

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B.D.S. Ist Professional

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MS Dental College Hospital & Research Centre
47, Knowledge Park-II, Greater Noida

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B. D. S. Examination, Sept. 2004

Paper III

Dental Materials

(BDS-03)

Time : Three Hours [Maximum Marks : 50]

Note : Attempt all questions.

Part A

1. Enumerate the tooth coloured restorative materials. Write classification, composition, condensation and uses of porcelain. 8
2. Classify gold alloys. Give their composition and uses in detail. 8

(2)

3. Write short notes on the following : 3 each
- (i) Die materials
 - (ii) Crazeing in resins
 - (iii) Polishing and finishing materials.

Part B

4. Classify dental cements. Give composition, manipulation and uses of Polycarboxylate Cement. 8
5. Describe briefly the following : 4 each
- (i) Investment materials
 - (ii) Denture base materials.
6. Compare and contrast the following : 3 each
- (i) Strength and hardness
 - (ii) Stress and strain
 - (iii) Malleability and ductibility.

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B.D.S. Examination, April-2004

Paper - III

DENTAL MATERIALS

(BDS-03)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions.

Part - A

1. Classify Gypsum products used in dentistry. 2
Discuss the following in detail :
 - (a) Setting reaction 2
 - (b) Setting time 2
 - (c) Setting expansions. 2
2. Compare and contrast :
 - (a) Ductility and malleability 2
 - (b) Elastic and proportional limit

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- | | | |
|-----|---------------------------|---|
| (c) | Tarnish and corrosion | 2 |
| (d) | Syneresis and Imbibition. | 2 |
| 3. | Write short notes on : | |
| (a) | Duplicating materials | 3 |
| (b) | Tissue conditioners | 3 |
| (c) | Curing poracity. | 3 |

Part - B

- | | | |
|-----|---|---|
| 4. | Enumerate the steps in Gold inlay casting procedure. How will you prevent the suspected defects in casting? | 8 |
| 5. | Classify Dental Cements. Discuss the composition, manipulation and uses of the following : | 2 |
| (a) | Calcium Hydroxide Cements. | 2 |
| (b) | Zinc Phosphate Cements. | 2 |
| (c) | Glass Ionomer Cements. | |
| 6. | Write short notes on : | 3 |
| (a) | Gold Foil | 3 |
| (b) | Porcelain | 3 |
| (c) | Abrasives. | |