

S
(2116)
B.D.S. Ist Professional

Roll No.....

5138

B.D.S. Examination, Nov. 2006

PAPER – III

DENTAL MATERIALS

(BDS-03)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt all questions. Use separate answer sheet for
Section A and Section B.

SECTION-A

Q.1. What are various Gypsum products used in Dentistry?
Discuss the setting reaction of Gypsum in detail.

8

Q.2. Discuss the composition, properties & uses of Zinc
phosphate cement.

8

Q.3. Write short notes on :-

9

(1) Percolation

(2) Phosphate bonded investment material.

(3) Porosity in acrylic Dentures.

5138 \1000 \2

LIBRARY

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

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

SECTION-B

- Q.1. Discuss condensation, fusing & glazing of Dental Porcelain. 8
- Q.2. Classify Dental Amalgams. Describe recent advances in amalgam alloys in detail. 8
- Q.3. Write short notes on : 9
- (a) Soft Denture liners.
 - (b) Tarnish and corrosion.
 - (c) Die materials.

—x—

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

5138 \1000 \2

R

(2046)

Postgraduate Department
Dental College Hospital & Research Centre
Postgraduate Part-III, Greater Noida

B.D.S. Ist Professional

Time: 3 hours (c)

5138 \ 300 \ 3

B.D.S. Examination, April - 2006

PAPER-III

Dental Materials (a)

(BDS-03) (c)

Time : Three Hours]

Maximum Marks : 50

Note : Attempt any five questions. All questions carry equal marks.

1. Classify Impression Materials. Write in detail about the composition, properties and uses of an elastic irreversible hydrocolloid impression material. (c) 10
2. Describe briefly :
 - (a) Knoop Hardness Number (c) 3
 - (b) Annealing (c) 3
 - (c) Denture bonding agents. (c) 4

5138 \ 300 \ 3

c / 006 / 812

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

3. Differentiate between :

- (a) Acrylic Teeth and Porcelain Teeth 3
- (b) Welding & Soldering 3
- (c) High-Cu and Low-Cu Amalgam Alloys. 4

4. Write short notes on the following :

- (a) Hygroscopic Setting Expansion 4
- (b) Resiliency 3
- (c) Crazeing. 3

5. Classify Gypsum Products. Differentiate between α & β hemihydrate and write a short note about disinfection of casts. 10

6. Differentiate between :

- (a) Gold Foil and Mat Gold 3
- (b) Cavity Varnishes and Cavity Liners 4
- (c) Eutectic Alloys and Peritectic Alloys 3

7. Describe briefly :

- (a) Pit and Fissure Sealants 3
- (b) Non-Eugenol Pastes 3
- (c) Inlay Casting Wax. 4

8. Describe the following dental cements in terms of composition, manipulation and uses :

- (a) Glass Ionomer Cement 4
- (b) Calcium Hydroxide Cement 3
- (c) Zinc Oxide Eugenol Cement. 3

9. Write short notes on the following :

- (a) Finishing and Polishing Agents 3
- (b) Casting Defects 3
- (c) Biocompatibility of Dental Materials. 4

10. Describe briefly :

- (a) All Ceramic Restorations 3
- (c) Ductility and Malleability 4
- (c) Condensation Silicones. 3

LIBRARY

73 Dental College Hospital & Research Centre
44, Knowledge Park-III, Greater Noida