

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

47, Knowledge Park-III, Greater Noida

B.D.S 2nd year – Reg. Batch (2010-14)

First Internal Assessment

Subject: Dental Material

1. Attempt all questions.
2. Draw neat, well labelled diagrams wherever necessary.
3. Use separate sheet for Part-A & part-B.

21.05.2012
Time: 3.0 hrs.

PART-A

M.M: (70)

- Q. 1 Classify Gypsum Products used in Dentistry? Discuss the differences between Normal setting & Hygroscopic setting expansion in detail? [10]
- Q. 2 Classify Dental Porcelain? Discuss the composition, mechanical & physical properties of Dental Porcelain? [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Duplicating materials
 - b) Proportional & Elastic limit
 - c) Knoop Hardness number

PART-B

- Q. 4 Enumerate non aqueous elastomeric impression materials? Discuss Addition Silicon impression material in detail? [10]
- Q. 5 What are Denture Base Resins? Describe compression moulding & fluid resin techniques? [10]
- Q. 6 Write notes on: 5X3=[15]
- a) Metal-ceramic bonding
 - b) Non - Eugenol pastes
 - c) Differentiate between alpha & beta hemihydrates

α & β

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47, Knowledge Park-III, Greater Noida

BDS 2nd Year (2010 Odd Batch)

Second Internal Assessment Examination

Subject: Dental Material

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

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Time: 3 hrs
M.M. – [70]

PART - A

- Q. 1 Classify impression materials. Discuss the composition, manipulation and uses of Zinc Oxide Eugenol impression paste. [10]
- Q. 2 Discuss classification, composition, mechanical and physical properties of Dental Porcelain. [10]
- Q. 3 Write short notes on- 5X3=[15]
a. Gypsum bonded investment Material
b. Stainless Steel
c. Addition Silicone Impression material

PART - B

- Q. 4 Classify waxes. Write the composition, properties and use of inlay casting wax. [10]
- Q. 5 Classify dental casting alloys and write in detail about desirable properties of dental casting alloys. [10]
- Q. 6 Write short notes on- 5X3=[15]
a. Direct filling gold
b. Hydrocolloid impression material
c. Pickling

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BDS 2nd year (2010 Reg. Batch)

Final 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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28.12.2012

Time: 3 hrs

M.M. – [70]

PART - A

- Q. 1 Describe step by step procedure for Gold Inlay Casting? What steps will you take in checking porosities? [10]
- Q. 2 Explain the mechanism of Adhesion and discuss Dentine Bonding Agent in detail. [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Die Materials
 - b) Stain hardening
 - c) Solid solution

PART – B

- Q. 4 Classify Dental Cements? Describe the composition, properties and advantages of Glass Ionomer Cement. [10]
- Q. 5 Classify Dental Casting Alloys? Write in detail about Base Metal Alloys. [10]
- Q. 6 Write briefly on: 5X3=[15]
- a) Reversible Hydrocolloids
 - b) Abrasives
 - c) High Copper Amalgam Alloys

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I.T.S DENTAL COLLEGE, HOSPITAL & RESEARCH CENTRE
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BDS 2nd Year (2011 Reg. 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

Time: 3 hrs
M.M. – [70]

PART - A

- Q. 1 Classify impression materials. Write in detail about Alginate. [10]
- Q. 2 Classify Dental Porcelain? Discuss composition, mechanical & physical properties of Dental Porcelain. [10]
- Q. 3 Write short notes on- 5X3=[15]
a. Difference between α & β hemihydrates
b. Color
c. Stress & Stain

PART - B

- Q. 4 Classify gypsum products. Write about factors affecting setting time of gypsum products. [10]
- Q. 5 What are denture base resins? Describe compression moulding & fluid resin techniques. [10]
- Q. 6 Write short notes on-
a. Proportional & Elastic limit
b. Knoop Hardness Number
c. Malleability & Ductility

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47, Knowledge Park-III, Greater Noida

BDS 2nd Year (2011 Reg. Batch)

Final 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

Time: 3 hrs
M.M. – [35]

PART - A

- Q. 1 Classify Dental Casting Alloys? Describe the composition & properties of Metal Ceramic Alloys. [10]
- Q. 2 Describe the composition, manipulation and properties of rigid, inelastic and irreversible impression material. [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Gold Foil ✓
 - b) Abrasives
 - c) Die Materials

PART - B

MM: [35]

- Q. 4 Give the classification and composition of dental ceramics? Discuss methods of bonding between metal & ceramic. [10]
- Q. 5 What is Amalgam? Describe the composition, properties, manipulation & indications of silver amalgam in detail. [10]
- Q. 6 Write short notes on: 5X3=[15]
- a) Soft liners & Tissue conditioners
 - b) Glass Ionomer Cement
 - c) Mercury Toxicity ✓

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BDS 2nd year (Reg. Batch)

Second 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

.08.2012
Time: 3 hrs
M.M. – [50]

PART - A

- Q. 1 ✓ Classify waxes? Write the composition, properties & uses of Inlay casting wax? [10]
- Q. 2 ✓ Discuss the composition, properties & manipulation of Irreversible hydrocolloid Impression Material? [10]
- Q. 3 Write briefly on: 5X3=[15]
- a) ✓ Annealing
 - b) ✓ Gold Foil & Mat Foil
 - c) Crazeing in resins

PART - B

- Q. 1 ✓ What is Amalgam? Discuss the advantages, disadvantages, uses of silver amalgam alloy. Write in brief about the manufacture of silver alloy powder? [10]
- Q. 2 ✓ Classify Dental Ceramics? Write in detail various method of strengthening ceramics? [10]
- Q. 3 Write short notes on: 5X3=[15]
- a) Porosities in denture base resin ✓
 - b) Implant material
 - c) Mercury Toxicity

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B.D.S 2nd year – Odd Batch

Second Internal Assessment

Subject: Dental Material

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1. Attempt all questions.
2. Draw neat, well labelled diagrams wherever necessary.
3. Use separate sheet for Part-A & part-B.

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47, Knowledge Park-III, Greater Noida Time: 3.0 hrs.

PART-A

M.M: (70)

- Q. 1 Classify Dental Cements? Discuss the composition, properties and uses of Zinc Phosphate cement? [10]
- Q. 2 Give the composition & classification of Dental Ceramics? What are the various methods of strengthening ceramics? [10]
- Q. 3 Write notes on: 5X3=[15]
- a) Cavity Varnish
 - b) Dentin bonding agents
 - c) Flux & its various types

PART-B

- Q. 1 What is amalgam? Give the composition of dental amalgam alloy and discuss the benefits and risk associated with amalgam made from high copper alloy? [10]
- Q. 2 Classify tooth colour restorative material? Describe resin based composites for posterior restoration? [10]
- Q. 3 Write notes on: 5X3=[15]
- a) Types of stainless steel
 - b) Acid-etch technique
 - c) Base Metal Alloys

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