Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

BDS 2nd Year Examination - JULY- 2019

Dental Materials

LONG (9×2=18)

1. Classify Impression Materials. Explain setting reacting of alginate. Add a note on synthesis and imbibitions of hydrocolloids (3+3+3=9)

2. Classify cements. Explain the adhesive cements. Add a note mixing technique of ZnP04 (2+5+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Proportional limit.

4. Phosphate bonded investment

5. Light cure composite

6. Hot spot in casting

7. Gold alloys

8. Dicor ceramic

9. Cold cure resin

10. Munsell colour system

WRITE BRIEFLY ON: (10x2=20)

11. Eames law

12. Fritting in ceramics

13. Rake angle

14. Ni toxicity

15. Creeps and flow

16. Modelling wax

17. EBA Cement

18. Eutectic alloy

19. Addition silicone

20. Classification of gypsum materials

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

BDS 2nd Year Examination - JANUARY- 2019

Dental Materials

LONG (9×2=18)

1. Classify Impression Materials. Discuss composition, manipulation and properties of Agar Impression Material. (3+2+2+2=9)

2. Discuss the casting defects that can arise and describe in detail how to avoid them. (5+4=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Adhesion and mechanical bonding.

4. Composition and setting reaction of Polyethers

5. Hygroscopic setting expansion

6. Dual Cure Resin

7. Zinc oxide Eugenol Cement

8. Refractory Materials

9. Casting Machines

10. Gold Foil

WRITE BRIEFLY ON: (10x2=20)

11. Guttaparcha

12. Stress and strain.

13. Die Stone

14. Zinc Polycarboxylate Cement

15. Firing in Porcelain

16. Sticky Wax

17. Galvanism

18. Frozen Slab Technique

19. Carat and Fineness

20. Gillmore Needle

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - AUGUST-2018

DENTAL MATERIALS

LONG (9×2=18)

1. State the ideal requisites of denture base resins. Describe composition and polymerization (curing) Cycle of heat cure acrylic denture base resins. (3+3+3=9)

2. Classify dental amalgam alloys. Describe the strength and creep of dental amalgam restorative material. (4+3+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Castable glass ceramics

4. Bonding Agents

5. Dental plaster Vs Dental stone

6. Factors affecting cutting efficiency of dental burs

7. Incomplete casting

8. Metal modified glass ionomer cements

9. Wetting and contact angle

10. Alginate Impression Material

WRITE BRIEFLY ON: (10×2=20)

11. Pickling

12. Casting ring liners

13. Flux

14. Dentin primers

15. Ideal requisites of inlay waxes

16. Polishing

17. Die Materials

18. Syneresis and imbibition

19. EBA cement

20. Yield strength

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - JANUARY- 2018
Dental Materials

LONG (9×2=18)

1. Types of Gypsum product. Setting reaction, properties and uses of plaster of Paris. (3+2+2+2=9)

2. Classification composition and advantages of light activated composite resins. (3+3+3+=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Mercury Toxicity

4. Electrochemical corrosion

5. Stages of Annealing

6. Stoichiometric setting of high copper amalgam. Add a note on Gamma two (2) phase

7. Classify Elastomeric Impression materials

8. Porosity in dental casting alloys

9. Pit and fissure Sealants

10. Soldering and Welding

WRITE BRIEFLY ON: (10×2=20)

11. Pseudo Elasticity

12. Abrasion

13. Laminates

14. Calcium Hydroxide

15, Mat Gold

16. Surface Tension

17. Zinc Oxide Eugenol Paste

18. Marginal Ditching

19. Pulp Liners

20. Gutta Percha

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - JUNE/JULY- 2017
Dental Materials

LONG (9×2=18)

1. Classify impression materials. Describe the composition,setting reaction and properties of irreversible hydrocolloids impression materials. (2+2+2+3=9)

2. State the ideal qualities of luting cements. Describe the composition, bonding reaction and biological considerations or glass ionomer cements. (3+2+2+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Acid etching technique

4. Creep of dental amalgam

5. Curing cycles of heat cure acrylic denture base resins

6. Dental stone

7. Dentifrices

8. Localized shrinkage porosity

9. Modulus of elasticity.

10.Strengthening of dental ceramics by residual compressive stresses

WRITE BRIEFLY ON: (10x2=20)

11. Any two abrasive e agents

12. Cause for distortion of inlay wax pattern 13. Classification of dental casting alloys

14. Zones of Flame

15. Ductility and malleability.

16. Multiple mix impression technique of elastomers

17. Non-cohesive gold

18. Requirements of dental solders

19. Sensitization of 18-8 stainless steel wire

20. Flux and Antiflux

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - JANUARY- 2017
Dental Materials

LONG (9×2=18)

1. Discuss in detail composition, classification and properties of Porcelain. Add a note on CAD CAM ceramics. (2+2+3+2=9)

2. Define tarnish and corosion. Explain causes and types of corrosion. (2+3+4=9)

WRITE SHORT NOTES ON: (8x4=32)

3. Evaluation tests for biocompatibility of dental materials.

4. Failure of Hydrocolloid impressions

5. Fillers in composite resin

6. Classify direct filling gold

7. Hygroscopic setting expansion

8. Phosphate bonded investments

9. Mercury toxicity

10. B-Titanium Alloys

WRITE BRIEFLY ON: (10x2=20)

11. Calcium Hydroxide

12. Contact angle

13. Sprue Former

14. Advantages of Glass Ionomers

15. Solidification defects

16. Three body abrasion

17. Varnish

18. Delayed expansion

19. Co polymer

20. Smear layer

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - JUNE/JULY- 2016
Dental Materials

LONG (9×2=18)

1. Classify impression materials. Describe the composition gelatin reaction and properties of irreversible hydrocolloids. (3+2+2+2=9)

2. What are dental composites? Write in detail about tne composition and properties of hybrid composite resins. (1+5+3=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Bonding Agents

4. Gold Foil

5. Curing cycles of heat cure acrylic denture base resins

6. Dentifrices

7. High copper amalgam alloys

8. Incomplete casting

9. Micro hardness testing methods

10. Type III dental gypsum product

WRITE BRIEFLY ON: (10×2=20)

11. Classification of dental casting alloys

12. Composition of Zinc Oxide Eugenol Impression Pastes

13. Ductility and Malleability

14. Contact angle of wetting

15. Die materials

16. Rouge.

17. Manipulation of Zinc Phosphate Cement

18. Metamerism

19. Titanium implant material

20. Welding

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - JANUARY- 2016

Dental Materials

LONG (9×2=18)

1. Define setting time of Gypsum products. Mention and explain different methods of measuring setting time. Add a note on theories of setting time and disinfection of Gypsum products. (2+3+2+2=9)

2. Name the various anterior esthetic restorative materials used, write the composition, properties and manipulation of glass ionomer cement. Add a note on sandwich technique. (2+2+2+1+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Pit and Fissure sealant

4. Composition and manipulation of inlay wax

5. Compare wrought and cast alloys

6. Back pressure porosity

7. 18-8 stainless steel

8. Dental solders

9. Microfilled composite resin

10. Calcium Hydroxide cement

WRITE BRIEFLY ON: (10x2=20)

11. Cavity varnish

12. Coupling agent

13. Sprue former

14. Flux

15. Trituration

16. Strengthening of Dental Porcelain

17. Gutta percha

18. Tray Adhesive

19. Tanish and Corrosion

20. Denture relining

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - JUNE/JULY- 2015

Dental Materials

LONG (9×2=18)

1. Classify dental ceramics. Write the composition of dental porcelain. Discuss the methods of condensation of dental porcelain and uses of porcelain. (3+2+2+2=9)

2. Write the composition, properties, advantages and disadvantages of amalgam alloys. Add a note on classification of amalgam alloys. (2+2+1+1+3=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Zinc oxide Eugenol impression paste

4. Syneresis and Imbibition

5. Gold Foil

6. Light cure composites

7. Dustless alginate

8. Zinc phosphate cement

9. Soldering and Welding

10. Dental implant materials

WRITE BRIEFLY ON: (10x2=20)

11. Chemical adhesion

12. Pumice

13. Inlay Wax

14. Localised shrinkage porosity

15. Die materials

16. Rake angie

17. Sandwich Technique

18. Etching

19. Rouge

20. Creep

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - JANUARY- 2015

Dental Materials

LONG (9×2=18)

1. Classify waxes used in Dentistry. Describe the composition, manipulation and uses of inlay wax. (3+2+2+2=9)

2. State the ideal requisites of luting cements. Give the composition, chemistry of setting and properties of glass ionomer cements. (2+2+2+3=9)

8x4-32

WRITE SHORT NOTES ON: (8×4=32)

3. Addition poly silicone impression material 4. Delayed expansion

5. Ductility and Malleability

6. Factors affecting cutting efficiency of dental burs

7. Hybrid composite resins

8. Ni - Ti orthodontic wire

9. Sprue former

10. Tissue conditioners

WRITE BRIEFLY ON: (10×2=20)

11. Advantages of Gypsum bonded investment materials

12. Eames Technique

13. Colour parameters

14. Composition of impression compound

15. Diamond abrasives

16. Functions of separating medium

17. Non cohesive gold

18. Porcelain condensation techniques

19. Soldering flux

20. Stages of annealing heat treatment

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - JUNE- 2014
Dental Materials

LONG (9×2=18)

1. Describe the composition, stages of mixing and curing cycles of heat cure acrylic denture base resins. (3+3+3=9)

2. Write gypsum materials. Discuss in detail dental stone. (3+6=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Acid etching technique

4. Castable glass ceramics

5. Manipulation of reversible hydrocolloids

6. Zinc phosphate cement

7.Metal modified glass ionomer cements

8. Modulus of elasticity

9. Casting shrinkage

10. Conventional composites

WRITE BRIEFLY ON: (10×2=20)

11. Baseplate wax

12. Composition of polyether impression material

13. Desorption of DFG (Direct Filling Gold)

14. Distinguish between abrasion and polishing

15. Galvanic corrosion

16. Trituration

17. Polyacrylic acid

18. Requirements of dental solders

19. Types of copolymers

20. Rouge

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana

Second BDS degree Examination - JANUARY- 2014

Dental Materials

LONG (9×2=18)

1. Classify silver alloys, discuss composition, properties, advantages and disadvantages of Hi copper alloys. (3+2+2+1+1=9)

2. Classiry dental ceramics. Write the composition and the mechanism of bonding porcelain to metal. (4+2+3=9)

WRITE SHORT NOTES ON: (8X4=32)

3. Osseointegration..

4. Hybrid composites.

5. Phosphate-Bonded investments.

6. Dental waxes.

7. Glass ionomer cement.

8. Dimensions of colour.

9. Alginate impresslon material.

10. Stainless steels.

WRITE BRIEFLY ON: (10×2=20)

11. Stress and strain.

12. Tissue conditioners

13. Stages of polymerization.

14. Base.

15. Types of setting expansion.

16. Corrosion.

17. Fluxes.

18. Casting ring liners.

19. Separating media.

20. Rake angle.

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - JUNE- 2013
Dental Materials

LONG (9×1=9)

1. Classify dental impression materials. Write the Composition and setting mechanism of reversible hydrocolloids

2. Classify dental cements. Write the composition, setting reactions Properties of zinc polycarboxylate cements. (3+2+2+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Toxicity tests.

4. Bonding agents.

5. Casting defects.

6. Abrasives and polishing agents.

7. Methods of strengthening ceramics.

8. Cavity liners and bases.

9. Factors affecting success of amalgam restorations

10. Hygroscopic setting expression.

WRITE BRIEFLY ON: (10×2=20)

11. Creep and flow.

12. Soft liners.

13. Internal porosity of denture base.

14. Yield strength.

15. Dental plaster.

16. Tarnish.

17. Forms of direct filling gold.

18. Divestment.

19. Dental burs.

20. Implant materials.

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - December- 2011/January- 2012
Dental Materials

LONG (9×1=9)

1. What is biocompatibility? Describe the biological considerations of dental materials.

(2+7=9)

2. Discuss in detail the composition, properties, setting reaction, advantages and disadvantages of Glass Ionomer Cements..

(2+2+2+2+1=9)

WRITE SHORT NOTES ON: (8×5=32)

3. High Fusing alloys.

4. Alginate impression material.

5. Composition of Ceramics.

6. Trituration.

7. Cobalt Chromium Alloys.

8. degassing and compaction procedures in Direct filling Gold.

9. Physical stages of polymerization.

10. 18/18 stainless steel.

WRITE BRIEFLY ON: (10×2=20)

11. Die materials.

12. Sticky Wax.

13. Zones of flame.

14. Hue Value and Chroma.

15. Delayed expansion.

16. Pickling.

17. Calcium Hydroxide.

18. Carat and Fineness.

19. Advantages of EBA cements.

20. Ductility and Malleability.

Kaloji Narayana Rao University of Health Sciences
Warangal, Telangana
Second BDS degree Examination - DECEMBER- 2012
Dental Materials

LONG (9×2=18)

1. Discuss on detail the composition, setting reaction, properties and uses of Alginate impression materials.(3+2+2+2=9)

2. Classify composite resins. Write the composition, properties and uses of hybrid composites. (3+2+2+2=9)

WRITE SHORT NOTES ON: (8×4=32)

3. Biocompatibility.

4. Diffusion.

5. Gypsum Bonded investments.

6. Physical stages of Polymerization.

7. Castable ceramics.

8. Glass ionomer Cement.

9. Types of silver alloys.

10. Soldering and Welding.

WRITE BRIEFLY ON: (10X2=20)

11. Dimensions of color.

12. Etching.

13. Zones of Flame.

14. Proportional Limit.

15. Dental Stone.

16. Cavity Varnishes.

17. Pit and Fissure sealants.

18. Karat and fineness.

19. Types of casting machines.

20. Sandwich Technique.

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