

Corrected

1

QUIZ #1 (B) D360 RESTORATIVE DENTISTRY

100

NAME: ~~XXXXXXXXXX~~

SEAT# ~~XXXX~~

1. The thickness of noble metal substructures to PFM crowns is:

- a. 5.2mm
- b. 0.4mm
- c. 0.1mm
- ☒ d. 0.4mm
- e. variable

2. Lingual and palatal reductions at the gingival one-third of a posterior PFM crown prep is:

- a. 1.20mm
- b. 1.40mm
- c. 0.50mm
- d. 0.25mm
- ☒ e. 0.75mm

3. Reduction of the functional cusp of a posterior PFM crown prep is:

- ☒ a. 1.5mm (metal only); 2.0mm (metal & porcelain)
- b. 1.5mm (metal only); 0.5mm (metal & porcelain)
- c. 1.0mm (metal only); 2.0mm (metal & porcelain)
- d. 1.5mm (metal only); 1.0mm (metal & porcelain)

7.0m

4. The 5 principles governing execution of design for cast restorations are:

- ☒ a. retention and resistance
- ☒ b. structural stability
- ☒ c. common path of insertion
- ☒ d. preservation of tooth structure
- ☒ e. bucco-lingual dimension
- ☒ f. marginal integrity
- ☒ g. preservation of the periodontium
- ☒ h. opposing occlusal forces

select 5

5. There are four types of occlusal interference:

- ~~a. working~~
- ☒ b. retrusive
- ~~c. nonworking~~
- ~~d. centric~~
- ☒ e. centric relation
- ~~f. protrusive~~

Select the two that don't belong

6. The curve of Wilson and the curve of Spee collectively form a 3 dimensional sphere or curve of:

- D
- a. mundung
 - b. munster
 - c. monset
 - ☒ d. monson
 - e. munsell

A

7. In a posterior PFM prep or anterior PFM prep the bevel must not be continuous with the lingual or palatal chamfer interproximally.

- ☒ a. false
- b. true

B

8. Two basic designs are used in the fabrication of articulators, which one is more accurate?

- a. nonarcon
- ☒ b. arcon

A

9. The path of insertion is an imaginary _____ along which the restoration will be placed onto or removed from the preparation.

- ☒ a. line(s)
- ~~b. perspective~~
- c. view(s)
- ~~d. scale~~

B

10. Which type of articulator is the most accurate for diagnostic and treatment outcomes:

- a. semi-adjustable
- ☒ b. fully adjustable
- c. simple hinge

11. In reference to the degree of beveling a shoulder for PFM margins, which degree closes the perpetual marginal gap the best?

- ☒ a. 5 degrees
- ☐ b. 30 degrees
- ☐ c. 90 degrees
- ☐ d. 15 degrees
- ☒ e. 45 degrees

12. A feature of a PFM preparation is a "wing"; what is its function?

- ☐ a. marginal integrity
- ☐ b. structural durability
- ☒ c. retention & resistance, preservation of tooth structure
- ☐ d. retention & resistance, structural durability

13. "Centric Interference" is a premature contact that occurs when the mandible closes with the condyles in their optimum position in the glenoid fossae. It will cause deflection of the mandible in a posterior, anterior and/or lateral direction.

- ☐ a. false statement
- ☒ b. true statement

Name: _____

Seat no. _____

Restorative Dentistry III

Quiz 1A 9/4/01

Number of correct answers 8

Answer 10 questions in *ink*.

Graded by: CPT

1. Which type of impression is generally the easiest to pour?

A. Polysulfide

B. Condensation silicone

C. "Hydrophobic" polyvinyl siloxane

D. Polyether

2. Which is the least expensive impression material?

A. Polysulfide

B. Condensation silicone

C. "Hydrophobic" polyvinyl siloxane

D. Polyether

3. State one advantage of using a custom impression tray over a stock tray for making a rubber impression.

Use less impression material (~2mm) for best detail with rubber impressions

4. Which type of resin used for provisional restorations is the most brittle?

A. Poly(methyl methacrylate)

B. Poly(ethyl methacrylate)

C. Poly(vinylethyl methacrylate)

D. Bis-acryl composite

5. Which type of resin exhibits high exothermic heat during polymerization?

A. Poly(methyl methacrylate)

B. Poly(ethyl methacrylate)

C. Poly(vinylethyl methacrylate)

D. Bis-acryl composite

6. According to Shillingburg, what is the minimum reduction required for a ceramic veneer on the lingual surfaces of maxillary anterior teeth?

1.0mm

Give two advantages of a metal-ceramic crown with an all-metal occlusal surface compared with one with an all-ceramic veneered occlusal surface.

7. Less abrasion of opposing teeth

8. Less prone to fracture Less reduction of tooth structure

9. According to Shillingburg, what is the minimum facial reduction needed for noble metal-ceramic posterior crowns?

1.2mm = base

1.4mm = noble

10. Which component of the articulator has the greatest influence on lingual contours when crown patterns are fabricated for maxillary anteriors?

Anterior incisal guidance

Corrected

Name _____

Seat no. _____

Restorative Dentistry III

Quiz 1B 9/10/02

Answer 10 questions in ink.

Number of correct answers 10

Graded by: [Signature]

1. What measurement is useful in the selection of a polycarbonate crown?

- Mesial-Distal width of the crown is the first
- Trim the gingival excess for height

2. How far should a custom resin impression tray extend gingivally beyond the necks of teeth?

3mm

3. How many occlusal stops should be placed in a custom impression tray?

3 occlusal stops, one each side of the posterior teeth all the way distally and one on the incisor

Give two disadvantages crowns with all-ceramic occlusal surfaces compared with all-metal occlusal surfaces.

- 4. More fracture or it fractures easily
- 5. Reduce more of tooth structure & more abrasive

State two disadvantages of poly(methylmethacrylate) provisional resin

- 6. High exothermic shrinkage
- 7. High Volumetric Shrinkage
- Toxic to the pulp for the free monomer
- Low abrasion resistance

8. How far should the incisal reduction extend gingivally in preparing a maxillary incisor for a metal-ceramic crown? 2mm

9. What is the minimum reduction needed on the lingual surfaces of maxillary incisors that will be veneered with-metal? 7mm

10. How much occlusal reduction is required for supporting cusps that are to be veneered with metal and porcelain? 1.5-2.0mm

↑
metal only

↑
metal & porcelain

Name: _____

Seat no.: _____

Restorative Dentistry III

Quiz 1A 9/9/03

Answer 11 questions in ink.

Graded by: _____

Number of correct answers _____

WEISBERG

1. Which teeth influence anterior guidance during excursive movements?
- A. incisors and canines
B. incisors and second molars
C. incisors and the most posterior teeth
D. incisors only

2. According to Shillingburg, what is the minimum incisal reduction required for maxillary anterior metal-ceramic crown?

~~1.0 mm~~ 2.0 mm (2.0 mm is preferred)

3. According to Shillingburg, what is the minimum facial reduction needed for a base metal-ceramic crown?

1.2 mm

base 1.2
Noble 1.4
1.5 preferred

4. Conventional glazed porcelain is approximately _____ times as abrasive as gold on tooth enamel.

A. 5 B. 10 C. 15 D. 25 E. 40

5. Which type of provisional restoration resin monomer is most toxic to the pulp?

~~dimethyl~~ methylmethacrylate

6. Which measurement is most useful in selecting a preformed polycarbonate crown?

mesial to distal width & incisal to gingival height
ONLY

7. Which cusps articulate in central fossae of maxillary teeth?

Distal buccal cusps of the mandibular teeth

8. According to Shillingburg, what is the minimum reduction required for a ceramic veneer on the lingual surfaces of maxillary anterior teeth?

1.0 mm

9. Which feature of the articulator has the greatest influence on lingual contours when crown patterns are fabricated for maxillary anterior teeth?

~~Bennett Angle~~ Anterior incisal guidance

10. How far should the custom impression tray extend beyond the necks of teeth that are to be included in the impression?

3 mm beyond the necks of teeth

11. The pouring of which impression can be delayed for up to one week?

A. polysulfide
B. condensation silicone
C. reversible hydrocolloid
D. polyether
E. B & C

Restorative Dentistry III

Quiz 1B 9/14/04

Number of correct answers 8

Print Answer to 12 questions in ink.

Graded by: [Signature]

1. What is the most brittle provisional crown resin?

~~poly (acryl) methacrylate~~acryl
Bis-~~acryl~~ composite

• Give two reasons for gingival recession around a crown.

✓ 2. Over Contoured Margins jagged margins

3. Margins placed too far Subgingivally

• 4. Give one reason for the popularity of the all-porcelain facial margin on a metal-ceramic crown.

In case of Gingival Recession the Margins will Not Show, or Margins can even be placed Supragingivally.

What are two clinical problems related to a metal-ceramic crown with too little axial reduction.

✓ 5. Thin Margins - Ceramic will be thin and brittle and will Fracture/flake off much more easily.

6. Lab tech. may overcontour crown to create the correct dimensions needed for strength/durability

• 7. What is the minimum facial reduction required for a noble metal-ceramic crown?

1.4mm

Name the two most accurate and dimensionally stable types of rubber impression materials.

8. Polyether

✓ 9. Polysulfide

A
E
S
C

• 10. Following cementation, what percentage of subgingival crown margins become visible within a two-year period?

60%

• 11. How can you protect the gingiva when preparing subgingival crown margins?

By placing Packing Cord into the Gingival Pockets to move the Gingiva out of the way while preparing the crown margin.

• 12. When fabricating crowns that restore the lingual surfaces of Maxillary Anterior teeth, it is extremely important that the anterior guidance be registered on the articulator.

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TO THE DIRECTOR
OF THE UNIVERSITY OF CHICAGO

FROM THE DEPARTMENT OF CHEMISTRY

RE: [illegible]

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