Name Corrected	Seat number
Restorative Dentistry III  Quiz 2A 10/02/01  Answer 11 questions in <u>ink</u> .	Number of correct answers
1. Why should a rubber impression be  TO DECTEUSE  CLEAN  2. What is the desired uniform inickne	washed under cold running water before it is poured?  Sall out to the cold to
y position of maximum intercuspation	metal-porcelain junction should be placed from occlusal contacts at the n?  If the source does to be constant to constant the constant the constant to constant the constant t
	celain margin over a metal collar margin on a metal-ceramic crown.
8. According to Shillingburg, what from a rubber impression?	he degassing firing cycle prior to porcelain application?  A YEV ON SUIFFACE  A IT TO MICH SUIFFACE  (is the minimum time a poured cast should be allowed to set before separating it
9. Ketter ETYE	amic crown compare with an all-ceramic crown.
11. What alloying element has the	potential to cause "greening" of porcelain in some metal-ceramic alloys?
Y iron	5/1/21

# st tive Dentistry III

. What is the primary bonding mechanism responsible for adhesion of of porcelain to a metal substructure?

#### Chemical

2. How many firings of opaque porcelain are needed before applying body porcelain?

### Two

3. What is the minimum width of the metal collar on the lingual surface of a M-C crown with an all-porcelain occlusal?

### 3 mm

Name two elements that form oxides on the surface of M-C alloys and promote chemical bonding?

4. Fe, Sn, In, Ga

5.

6. Give one reason why porcelain should not be extended over onto the metal collar of a M-C crown?

Creates: overcontoured gingival margin — detrimental to the periodontium; fracture prone porcelain; an undetected open margin; etc.

7. What is the desired uniform thickness of porcelain for a M-C restoration?

#### 1.0 mm

8. What is the minimum distance occlusal contacts should be from the metal-porcelain junction?

## Accept 1.0 mm or 1.5 mm

- 9. As porcelain is heated, adjacent powder particles bond together by a process called sintering.
- 10. What is the name of the crystalline phase found in feldspathic porcelain that has a coefficient expansion higher than that of the glassy matrix?

#### Leucite

Conected

5 <b>+</b> 0		Correct	24		
Name:		<b>P</b>		Seat no.:	
Quiz 2B	tive Dentistry III 3 10/2/03 11 questions in <i>ink</i> .	Graded by:		rect answers	
1.	Why should the angle of not to allow for proper to what is the minimum distinguished to the position of	er secting and hickness of mance the metal-porcela	fusing of met eterials (need	al to forcelain for maximum interacti to of meterials for cher	nico
3.	In what time period do 60 cementation?	of subgingival facia		ecome visible after	
4.	What is the optimum uni	form thickness of porc	elain for metal-cera	amic restorations?	
5.	Name one alloying elem- porcelain.	ent found in some nobl Gallium	le metal alloys that	enhances bonding to	
6.	What is the desired thick (free gingival margin)?	kness of a pindex cast f	rom its base to the	preparation finish line	
7.	Why must the base of a te allow for a and to avoid	pindex cast be perfectly writern depth tracture while	ly flat?  Of drilling Wardilling War	ben placing Pin he	۽ آخ
8.	According to Shillingby before separating it from	arg, what is the minimu	um time a poured c	ast should be allowed to se	1
9.	What is the primary bo	nding mechanism of po	orcelain to metal?		
10. áy	What is the main layer	of porcelain above the	opaque layer calle	d?	

What is the minimum thickness of porcelain compatible with good esthetics?

0.7

CARROT CORROSION FINENESS GRAIN

PLANNUM/COPPER/SILVER

ADA CLASSIFICATION II, III, III

Name =	Seat no. $B-7$
Restorative Dentistry III  Quiz 2A 10/7/04 <b>Print</b> Answer to 12 questions in <i>ink</i> . Graded by:	Number of correct answers/2_
1. What can cause a clean separation of fired porcelain  To large of an Oxide L	
2. Which layer of porcelain provides most of the color Dentin Body Layer	? the Metal Coping
3. State one advantage of the Accu-Trac compared wit	h the Pindex die system.  Cast on Base or use Vaseline,
Name two fabrication techniques for producing all-ceramic  4. Heat-pressed	crowns. [Accutrate best for Single Unit Crowns]
5. Computer Assisted Machined	
6. Ideally, how should the coefficient of thermal expantion that of the metal coping?	nsion of porcelain compare with

6. Ideally, how should the coefficient of thermal expansion of porcelain compare with that of the metal coping?

CTE of porcelain should be just a little than the CTE of the metal so that the porcelain is slightly compressed.

Give two functions of the opaque layer of porcelain.

7. Bonding to the Metal 8. Hide the Metal

9. What is the minimum thickness of porcelain needed for acceptable esthetics?

O.7 minimum

O.7 mm [I.Omm is idea]

10. How can tooth #8 be altered to make it appear narrower without changing its width?

Moving the transitional line angles in- (1)

11. Name the strongest computer assisted machinable material for making all-ceramic crowns.

Zirconium

12. What is the minimum distance the metal-porcelain junction should be placed from occlusal contacts at the position of maximum intercuspation?

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