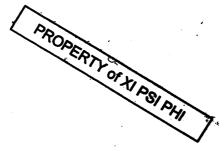


Department of Restorative Dentistry

## RESTORATIVE DENTISTRY V

D553

Mid-Term Examination October 15, 2003



TEST CODE NUMBER 03

## **INSTRUCTIONS:**

- Verify that you have a question booklet with nine pages and fifty questions.
- Write your name on the computer answer sheet as well as a nine-digit personal identification number of your choosing (in the field labeled "Social Security Number") and blacken the appropriate circles with a #2 pencil. Note: Test scores will be posted using PINs.
- IMPORTANT!!
   Write the Test Code Number (above) on the computer answer sheet in the "Test Code" field under "Optional Codes", and blacken the appropriate circles.
- Sign the back of the computer answer sheet.
- For each question answered, blacken the appropriate circle on the computer answer sheet corresponding to the letter of your choice.
- Students are not permitted to ask questions of the proctors during the examination. Do your best to answer each question with the information provided.
- When you have completed the examination, turn in your computer answer sheet. You may keep the
  question booklet.

Which one of the following expressions is correct? 1. epithelial attachment = gingival attachment + connective tissue attachment periodontal attachment = epithelial attachment + gingival attachment periodontal attachment = epithelial attachment + connective tissue attachment gingival attachment = connective tissue attachment + epithelial attachment biologic width = gingival attachment + epithelial attachment 2. The best way to compensate for molar crown preparations that are short occlusogingivally, and therefore offer little resistance to dislodgment of the restoration, is to increase the total occlusal convergence b. use resin modified glass ionomer luting cement use a beveled shoulder finish line instead of a chamfer prepare vertical grooves in opposing axial surfaces Which of the following rotary instruments may be used to create satisfactory finish lines for cast metal margins? round-end tapered diamond a. b. torpedo diamond flame-shaped diamond two of the above d. a, b and c above The optimal occlusal reduction for a posterior tooth prepared for a PFM crown that is to have a ceramic occlusal surface is \_\_\_ mm. 2.0 1.5 d. 1.0 Which of the following are possible consequences of not replacing tooth #19 in an otherwise intact dentition? extrusion of one or more opposing teeth in the maxillary left quadrant mesial tipping of the remaining mandibular left molars / C. distal migration of the premolars in the mandibular left quadrant " two of the above a, b and c above 6. The ideal total occlusal convergence (TOC) of the axial walls of a crown preparation has been cited by some authors as 2-50, yet Goodacre and others (Tooth preparations for complete crowns: an art form based on scientific principles, J. Prosth. Dent., 2001) propose 10-200 as the norm. Why? a. there is no significant difference in resistance and retention between crowns that have 50 TOC and

d. it is easy to compensate for higher TOC by using coarse diamonds that produce rough surfaces

TOC has nothing to do with resistance to dislodgment of the restoration

2-50 is not routinely achievable, even by experienced dentists

those with 200 TOC

٠.	scie	ording to Goodacre and others (Tooth preparations for complete crowns: an a ntific principles, J. Prosth. Dent., 2001), the axial walls of <u>molars prepared for</u> usal convergence of 10-200 should be at least mm long occlusogingiva	crowns with total
	resis	stance and retention.	
•			•
	a.	3	
į	رق ا	<b>4</b>	•
	d.	5 6	•
	۷.		. •
/	A "p	cick-up" impression may be used to	
	(a.)	re-align multiple crown castings fabricated on different master casts	
		record inter-occlusal jaw relations to relate maxillary and mandibular master ca	asts
		provide information needed to produce a custom incisal guide table	
		design the framework for a new removable partial denture	
3	•		
		er making the necessary post space the first step in the process of making a	burnout pattern for a
را پیرس	cas	t post and core is to	•
	_		
	70a.	prepare the remaining tooth structure for crown coverage, removing weak d	entin walls as needed
13	(6)	remove or block out undercuts in the pulp chamber	V
V	/ C.	apply a water soluble lubricant to the dentin walls surrounding the post space	
•	d.	create a positive replica of the post space using cold cure acrylic and a rigid p	plastic post former
10.	Wh	ich of the following are valid reasons for using a post in an endodontically tre	ated tooth?
	<b>а</b> .	reinforce the root to reduce the risk of root fracture	3
	b.	. The second of	
_	(C.)		
	(G)		ERTY of XI PSI PHI
•	d.	help retain the core build-up	ERTY of XI PSI PHI
_	d.	help retain the core build-up / PROP	ERTY of XI PSI PHI
11.	d. e. The	help retain the core build-up / PROP	
11.	d. e. The	help retain the core build-up / PROP two of the above a, b and c above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the above as a band c above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the above as band c above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the above as band c above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the above as band c above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the above first consideration and primary focus of a minimally invasive management appropriate the core build-up / PROP two of the c	
11.	d. e. The cari	help retain the core build-up two of the above a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible	
11.	d. e. The cari	help retain the core build-up  two of the above a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible preserve healthy tooth structure during cavity preparation	
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	d. e. The cario	help retain the core build-up  two of the above  a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible preserve healthy tooth structure during cavity preparation alter the microenvironment in order to promote remineralization choose an instrumentation approach that permits controlled fissurotomy aying surgical intervention for some Class II caries lesions discovered on biter	proach for a patient with
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12.	d. e. The cario a. b. c. d. e Flu a.	help retain the core build-up two of the above a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible preserve healthy tooth structure during cavity preparation alter the microenvironment in order to promote remineralization choose an instrumentation approach that permits controlled fissurotomy aying surgical intervention for some Class II caries lesions discovered on biterified because  caries lesions of enamel usually progress at a slow rate and adental radiograph does not reveal whether a lesion is active or not medical management may be effective in arresting and remineralizing some two of the above a, b and c above  orde is believed to inhibit which one of the following bacterial enzymes?	proach for a patient with
12.	d. e. The cark a. b. c. d. e Flu	help retain the core build-up two of the above a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible preserve healthy tooth structure during cavity preparation after the microenvironment in order to promote remineralization choose an instrumentation approach that permits controlled fissurotomy aying surgical intervention for some Class II caries lesions discovered on biterified because  caries lesions of enamel usually progress at a slow rate and a dental radiograph does not reveal whether a lesion is active or not medical management may be effective in arresting and remineralizing some two of the above a, b and c above  orde is believed to inhibit which one of the following bacterial enzymes?  dextran sucrase pyruvate kinase	proach for a patient with
12.	d. e. The cario a. b. c. d. e Flu a.	help retain the core build-up two of the above a, b and c above  first consideration and primary focus of a minimally invasive management appears lesions is to  use composite resin instead of amalgam wherever possible preserve healthy tooth structure during cavity preparation alter the microenvironment in order to promote remineralization choose an instrumentation approach that permits controlled fissurotomy aying surgical intervention for some Class II caries lesions discovered on biterified because  caries lesions of enamel usually progress at a slow rate and adental radiograph does not reveal whether a lesion is active or not medical management may be effective in arresting and remineralizing some two of the above a, b and c above  orde is believed to inhibit which one of the following bacterial enzymes?	proach for a patient with

10.

14. The medical approach for managing a caries-active patient includes an effort to promote remineralization of lesions with fluoride. What is the mechanism of this action? fluoride reacts directly with hydrogen ions, neutralizing them fluoride ions inhibit bacterial enzymes, including dextran sucrase X b. fluoridated apatite (FAP) has a lower critical pH than dental apatite (HAP) fluoride acts as a catalyst in the formation of FAP precursors from free calcium and phosphate (d.) For the next five questions, respond to the given statement with one of the following answers: the statement is false a. the statement is true, and it may represent a reason for supporting community water fluoridation b. the statement is true, and it may represent a reason for opposing community water fluoridation the statement is true, but it has no relevance to the issue of community water fluoridation d. 15. The cariostatic benefits of fluoride are derived primarily from systemic exposures. Fluoridating drinking water is an economical way to provide a daily source of topical fluoride. 17. The prevalence of mild to moderate fluorosis in American children is significantly higher today than it was 10-20 years ago., Epidemiological studies consistently show that terminating community water fluoridation programs inevitably results in higher caries rates within several years. 19. American children from poor families exhibit a disproportionally high caries rate compared to children at higher socioeconomic levels. 20. The most conservative guidelines for the treatment of Class II caries lesions visible on bitewing radiographs (Minimal intervention dentistry - a review, International Dental Journal, 2000) are based on which one of the following principles? 40 90 less than half of all lesions visible in the outer third of dentin are likely to be cavitated caries lesions that affect dentin cannot be arrested 📈 Б. caries lesions are more extensive than they appear on radiographs X caries lesions that penetrate the dentin spread laterally at the DEJ Occlusal surfaces of posterior teeth are more problematic compared to the smooth axial surfaces when it comes to caries management because Class I caries lesions progress at a much slower rate compared to Class II lesions a. b. caries lesions in fissures - even those that have progressed into dentin - are often difficult to detect there is presently no reliable way to remineralize progressive fissure lesions C. d. two of the above a, b and c above 22. The KaVo Diagnodent™ operates on which one of the following principles? differential staining electrical resistance transillumination laser fluorescence progressive diffusion

In their 10 year study of Class I restorations (Ultraconservative and canostatic sealed restorations, J.A.D.A., 1998), Mertz-Fairhurst and her coworkers found that the traditional concept of removing all demineralized dentin prior to restoration is the only reliable way to prevent further loss of tooth structure from the caries process

conservative amalgam restorations sealed with a flowable resin exhibited the fewest failures the traditional concept of extending cavity preparations into all fissures is still the most effective way to prevent the development of new caries lesions

residual caries dentin lesions sealed inside teeth with superficial composite resin restorations tended to remain active and grow-larger over time / X

- 24. If a decision is made to restore a mandibular molar with a D1 caries lesion in the mesial surface and a beginning dentin lesion at the base of the distal occlusal pit, what is the most appropriate plan?
  - a. Class II amalgam restoration with traditional extension for prevention (after G.V. Black)
  - b. Class II composite resin restoration with traditional extension for prevention (after G.V. Black)
  - C. Class II amalgam restoration with traditional extension for prevention, sealed with a flowable resin
  - Class II proximal slot (occlusal access) restored with amalgam or composite resin, and a Class I PRR

Caries risk assessment is based on which of the following fundamental principles?

the prevalence of the disease reflects a tendancy toward equal distribution within a population Xthe disease is present long before caries lesions appear in the mouth

patients who exhibit salivary mutans streptococci levels of 100,000 cfu/ml will inevitably develop

caries lesions, even in the absence of other risk factors

- **(d**) two of the above
- a, b and c above

26. The results of the study by Quellet and others (Detection of occlusal carious lesions, General Dentistry, 2002) suggest that the DiagnoDent™

exhibits greater sensitivity than conventional diagnostic techniques u

b. may help reduce talse negative diagnoses compared to conventional diagnostic techniques alone

is highly effective in predicting the depth of a caries lesion in dentin X

- two of the above a, b and c above
- When using a caries risk model to help manage a population of dental patients, a likely consequence of a false negative result is
  - failure to adequately treat the patient for disease application of outdated restorative principles 🗶
    - C. unnecessary costs for preventive therapy
    - an overly aggresive treatment approach x d.

If one were to use the presence or absence of teeth as the sole predictor in a caries risk model for a patient population (teeth present = high caries risk, teeth absent [edentulous] = low caries risk), it is likely that the model would exhibit

high sensitivity, but low specificity

low sensitivity, but high specificity

high sensitivity and high specificity

low sensitivity and low specificity

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									, <u> </u>
29.	Whik	ch of the following	salivary proteins	are thought	to have an	antimicrobia	I function?		
	_	h.a							•
	a. b.	lysozyme lactoferrin		. :			• .	•	•
•	D. C.							•	•
	d.	IgA two of the above			· 😘 🗼		•		
4	Ŏ.	a, b and c above	• •	•					
,		a, baild cabore	•						•
30.	ln t	he paper "Acquisi	tion and transmi	ssion of mut	ans strepto	cocci" (CDA	Journal, 200	3). Berkowit	<b>Z</b>
/		ues that						-,,	_
	·				i	•			•
	a.	MS cannot exist	in the mouth of	an edentulo:	us infant 📐		•		
	b.	vertical transmiss						•	:
	<b>(</b> C.)	,		risk factor for	r caries exp	erience later	in life		
	d.	two of the above		•			•		
	Θ.	a, b and c above	n i en e						
04	<b></b>								·
31.	Cim	ical studies review	ed in the paper	by Berkowit	z (Acquisitio	on and transi	nission of m	utans strept	ococci,
	CD	A Journal, 2003) s	uggest that tran	smission of	vis to youn	g children m	ay be prever	ited of delay	ed by
	(a.)	suppressing the	arough of MC in	thair matha				•	•
•	G.	treating children				t sign of equ	otion		
•	C.								
	d.	mixing infant for			nar bidileri A	toont appea	•	••	
					•		. · · · · ·		·
32.	Acc	ording to Feather	stone (The scie	nce and prac	tice of cari	es preventio	n, J.A.D.A., 2	2000), the g	roup of
	car	iogenic bacteria kı	nown as mutans	streptococc	i includes S	. mutans and	i		
		and the second of the second o			•		•	a	
	a.	S. salivarius			• •		· .		.e.
•	b.	S. lactalis				•			
• `	<b>(C./</b>	S. sobrinus				.•			
	a.	S. conjunctans	•				· v	•	
33		rhania ambiedence '	Min on income		L to about	\ 			
	· .Ca	rbonic anhydrase	VI IS ALL ISOUTIZY	ne in Sauva t	natas uloug √0/H	iur 10			•
	(a.)	catalyze a react	ion hetween hvo	imaen inne i		nate thereb	vraising plac	Ho eur	
	<b>b</b> .	cause aggregat					y (tabling plat	100 511	
	C.	inhibit the adhes	sion of bacteria t	o enamel su	riaces				
	ď.	interfere with ba				•	•		
	e.	promote the pre				on or in ena	mel surfaces	· · · · · · · · · · · · · · · · · · ·	
		•	. •	• •	•				•
34	. As	ignificant disadva	ntage of chlorhe	xidine (CHX	) when use	d to suppres	s oral mutan	s streptococ	ci (MS)
	lev	els is that	•	•					
	_	Olivie te la				•			
	a	CHX is cleared	from the oral cav	ity within 30	minutes			•	
•	(g)	/ ivis olden return	to pretreatment	levels after	several mo	nths	•	• • • • • • • • • • • • • • • • • • • •	, v
	d.	CHY must be u	nly resistant to C	HX therapy	·	·			halaw
	u.	CHX must be us			in excess o	or 6 monuns i	n order to su	ppress MS	Delow
		nie usk miesto	ld level (10 <sup>5</sup> cfu	/mi)			* * * *		
		_	The same particular and the same and the same	1. 16.16		•		•	
		17-110-18	ERTY OF XI A	The second			-		
		1 1140	and the second s		•				
		Note: 17	•						:
	•				•				
•					6				
		•			•				
		•		•					
						•			•
									•

3½.		neir study (Maintaining mutans streptococci suppression with xylitol chewing gum, J.A.D.A. ebrandt and Sparks concluded that	. 2000).
	a.	xylitol is effective in prolonging the effects of chlorhexidine, but gum is not a practical or of vehicle for delivering xylitol	convenient
	b.	stimulation of saliva flow is the most likely mechanism by which xylitol gum had a cariostati	c effect on
(	(c.)	test subjects suppression of MS is more effective in subjects who have relatively few restored surfaces	compared
`	ď.	to those who have many restorations  xylitol gum was somewhat beneficial in maintaining MS suppression in test subjects, but the subject of the suppression in test subjects.	the
		statistical significance was so minor as to offer no immediate clinical applicability	
36.		e apatite impurity that is believed to be most significant in rendering enamel crystallites sus d dissolution is	ceptible to
	a.	OH	
	b.	Mg <sup>2</sup> +	
	c.	F-	
	(g,)	CO <sub>3</sub> <sup>2</sup> -	•
	e.	PO <sub>4</sub> 3-	•
37.		nich of the following represent sound reasons for replacing (as opposed to repairing) an ex algam restoration?	isting
	a. b.	narrow ditching of margins that stain with a caries indicator dye	
(		a fracture through the occlusal isthmus without loss of any portion of the restoration two of the above	
	e.	a, b and c above	
38.	Rej	placement of restorations due to a diagnosis of secondary caries should decrease if	· . ·
	a.	better adhesives are developed that enhance the marginal seal of restorations	*
	b. c.	the prevalence of dental caries continues to decrease better diagnostic methods are developed that reduce (also positive diagnoses	
	٥. ع	two of the above	
	(e.)	a, b and c above	
(39)	Sig act	gnificant improvement in adhesive bond strengths to dentin using a total-etch technique wherever with the introduction of	<i>r</i> ere
	a.	maleic acid etchants	
	b.	· · · · · · · · · · · · · · · · · · ·	
	C.	sodium hypochlorite conditioning gels X	
	Ø.	hydrophilic primers	
40	. Ар	potential advantage of self-etching primer adhesive systems (compared to total-etch syste	ms) is they
	(a.)	eliminate the error-prone rinsing and blotting step after acid etching	
	Ъ.	produce significantly higher long-term bond strengths to dentin X	
	C.		
	d.	bond to the smear layer, so there is no need to condition dentin	*

	s are typically in the range of	celain or non-precious metal
_	C 40 1 70	
a.	5-10 MPa	
	20-30 Mpa	
C.	85-95 MPa	•
d.	120-150 MPa	
u.	120-130 WIFE	•
42. In ge	eneral, as bond strength of a composite resin restoraton increases,	the potential for
a.	post-operative sensitivity increases	
b.	polymerization shrinkage decreases	•
-		
Ç.	cusp fracture increases X	•
(d.)	microleakage decreases `	
A po	ossible disadvantage of incorporating filler particles in a total-etch ad	hesive system is
· a.	lower adhesive bond strengths to enamel	
<b>b</b> .	lower viscosity	
ام الم		
1 9	loss of the hybrid layer	
ď.	an inferior etching pattern in enamel	
е.	low mechanical strengths	•
. 6.	on medianismentalis	
<u>a</u> .	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de	
a. b c. d. 45. Wh	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in	sence of any moisture g" technique
a. b c. d. 45. Wh	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding	sence of any moisture g" technique
a. b c. d. 45. Wh	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?	sence of any moisture g" technique
a. b. c. d. 45. Wh (C.M.	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?	sence of any moisture g" technique
a. b c. d. 45. Wh	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?  both materials set, in part, by an acid-base reaction CMPs require the use of a separate adhesive. RMGIs do not	sence of any moisture g" technique
a. b. c. d. 45. Wh (C.M.	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the prestalse, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?  both materials set, in part, by an acid-base reaction CMPs require the use of a separate adhesive. RMGIs do not	sence of any moisture g" technique
a. b. c. d. 45. Wh. (C. a.) c.	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the pres false, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?  both materials set, in part, by an acid-base reaction CMPs require the use of a separate adhesive, RMGIs do not CMPs release fluoride, CMPs do not	sence of any moisture g" technique
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a.b. c. d. Wh. a.m. a.b.	true, because all dentin primers are hydrophobic false, because excessive drying will lower the bond strength to de true, because dental adhesives cannot bond to enamel in the pres false, because adhesion to enamel is traditionally a "moist bonding false, because adhesion to enamel is traditionally a "moist bonding ich one of the following statements comparing resin-modified glass in APs) is true?  both materials set, in part, by an acid-base reaction CMPs require the use of a separate adhesive, RMGIs do not RMGIs release fluoride, CMPs do not RMGIs release fluoride, CMPs do not RMGIs can be used for Class V restorations, CMPs cannot claich one of the following may be a benefit of using a glass ionomer or color that requires an occlusal restoration?  glass ionomer materials offer greater retention to enamel than resinglass ionomer materials are more resistant to fracture than resin materials surfaces or seal occlusal fissures using a glass ionomer material instead of a resin restorative material	sence of any moisture g" technique ionomers (RMGIs) to comporne resin-modified glass ionomer to in restorative systems aterials when used to restore al allows for greater conservation
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Which of the following are characteristics of the fesin modified glass ionomers? adhesion to tooth structure requires the use of a separate resin adhesive capable of taking up fluoride from exogenous sources and re-releasing it ("rechargeable") two of the above a, b and c above

- 48. After many previous uneventful uses, a dental hygienist complains of redness and soreness of the hands after wearing latex gloves. The most likely diagnosis is
  - Type IV hypersensitivity reaction irritant dermatitis Type I hypersensitivity reaction
    - allergic contact dermatitis

49. An allergy to natural rubber latex is manifested as a (an) (7) immediate hypersensitivity reaction delayed hypersensitivity reaction | V

- non-immunological reaction
- irritant dematitis
- 50. The most reliable method for diagnosing hypersensitivity to natural rubber latex protein is the
  - skin prick test skin patch test
    - radioallergosorbent tests
    - mucosai rapid reagent test