 Please read all directions before starting the examination. Your examination booklet should contain 6 pages with a total of 30 multiple of questions. Please check to verify you have all of the examination. Write your name and preclinic seat number on the cover of the examination answer section. Write your name and Temple ID number on the computerized answer sheet corresponding letters and digits below the boxes. On the cover of your exam booklet is a number and letter (A or B). In the box answer sheet circle A or B depending on your exam and under the circled let the appropriate circles. On the reverse side of the computerized answer sheet sign your name and test booklet in the box labeled identification information. Be sure to darken all circles on the computerized answer sheet before the eigiven at the end of the examination for this purpose. Choose the best answer for each question. No questions will be answered of green answer for each question. No questions will be answered of green answer for ach question. No questions will be answered of green and the computerized answer form AND the entire examination booklet to a fact the plant of the following teeth is most likely to benefit from occlusal sealant plant and first molar distributions. A large carious lesion on the distal surface of a maxillary central incisor involution. Class I lesion distribution and first molar distributions. Class II lesion distribution and first molar distributions and first molar distributions and first molar distributions. Class II lesion distribution and first molar distributions and first molar distributions. Class II lesion distribution and first molar distributions. Question distribution and first molar distributions. Question distribution and first molar distributions. A large carious lesion on the distal surface of a ma	
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9. Return the computerized answer form AND the entire examination booklet to a second	uring the examination.
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4. When applying a Tofflemire matrix band to a tooth with a Class II preparation circumference is always oriented and the open end of the U-shaped retain a. occlusally, occlusally c. gingivally, gingivally	
circumference is always oriented and the open end of the U-shaped retain a. occlusally, occlusally c. gingivally, gingivally	e. 4 only
	n, the edge of the band with the larger ner head is always oriented
5. Force applied to the occlusal surface of a crown at an oblique angle can pro supporting tooth structure. The point on the margin closest to the line of action line is drawn from the center of rotation perpendicular to the cement film on the line intercepts the cement film is called the tangent point. Apical to the tangent	is the fulcrum point or center of rotation. If a opposite wall of the prep, the point where the
component of a. compression b. shear	

compression Shear tension

					ng statements (questions 6 - 11) as true or swer sheet if the statement is false.
	a. True	b. False			
ony one	smaller diameter. 9. When cementing an ir placing the veneer on the 10. The depth of enamel	eded under composite of the with a large diameter of the composite veneral total total dissolution caused by a tion presented in Dr. Ar	resin restoration r resists pivoting er, the bonding a ete polymerizati acid etching is a ocho's lecture,	s to provide thermal in movements better that agent is applied to the on of the bonding age pproximately 100 to 15 reatment Planning is	an a preparation of equal length on a tooth of tooth surface of the veneer and cured before nt.
	12. The current consens a. chemically	us is that dentin bondin b mechanic		orimarily c. via hydrogen bondin	
	following advantages ex	cept:			resin composites have all of the d a self-sealing mechanism
	14. Teeth with intrinsic s restored using direct cor restorations. (ST p.654) 1. Tetracycline-stathe tooth 2. Multiple layers 3. Allowing opaqu 4. Using a brush to reflect light rays	taining sometimes requiposite veneers. Which ained teeth are much more of opaque materials shows the material to remain at so obtain a stippled surfactions out	ire restorations of the following ore difficult to version by the cavosurface ace on the opaq ward through the	because of patient est statements are true co eneer, especially if dar n thin layers and cured margin will not affect ue material results in it e veneer.	hetic concerns. These teeth can be oncerning direct composite veneer k staining occurs in the gingival third of d independently the esthetics of the restoration mproved esthetics because it helps
	a. All stateme	ents are true b	1, 2, 4	c. 2, 3, 4 d. 1,	, 2 e. 1 only
	walls of a preparation shall. The old mate	nould be removed if which erial is judged to be thin	ch of the following, non-retentive of	ng condition(s) is (are) or both.	,
	3. The pulp was	lence of caries under the symptomatic preoperary of the remaining restored.	atively		
	a. all of the abo	b. 2 only	(c. 1), 2, a	nd 3 d. 1, 2	e. 2, 3
	16. Microfill resin compo allower	sites generally have a _ b. higher	perc	entage filler content th	an other types of resin composites.
1	1. teeth that ha 2. well-coalesc 3. teeth that ha	ve remained caries-free ed fossae and grooves ve active proximal cavit g signs of softening or o	e for ≥ 4 years × ated lesions ×	X	llowing situations require pit and fissure sealant
	a. 1, 4 and 5	b. 2, 3 and	4 (c.4	and 5 d. 2, 4	and 5

B

18. Which of the following are true regarding the use of the knife edge finish line for cast gold restorations: 1. the axial reduction may fade out instead of terminating in a definite finish line 2. difficulty in identification may make waxing of the restoration difficult 3. it is more susceptible to distortion under occlusal forces 4. can result in overcontoured restorations
(a) all of the above b. 1, 2, 4 c. 2, 4 d. 1, 2, 3 e. 1, 4
19. The most deleterious effect of polymerization shrinkage of a resin composite is; a. color change b. increased wear c. microgap formation d. increase in softness
20. Materials contraindicated for placement under and in contact with composite resin include 1. varnish 2. Ca(OH) ₂ 3. IRM 4. Zinc phosphate cement 5. copalite
a. 1, 3 b. 1, 3, 5 c. 1, 2, 4 d. 3 and 5 e. 1, 4, 5
21. To decrease the diameter of the matrix band, the operator should turn the on the matrix retainer a. adjusting nut; clockwise c. adjusting nut; counterclockwise d. locking nut; clockwise
22. In a Class V amalgam preparation for an incipient lesion, the ideal internal form of the preparation has which of the following features? a. the axial wall is flat b. the mesial and distal walls converge d. the axial wall is uniformly deep into dentin.
23. Bacteria role in dental caries: 1. Follows a vertical path of infection (parent to child) 2. S. mutans and lactobacilli have been associated with the caries process. 3. Lactobacilli are the initiators of the carious lesion. 4. Both bacteria (S. mutans and lactobacilli) are part of the normal flora of the mouth since birth. 2. a.1, 2 only b. 2,3 only c. 1,4 only d. 2,4 only e. All of the above
24. You are planning to use a composite resin material for a Class IV restoration. Which of the following steps would you follow? a. Apply rubber dam, select shade, pumice teeth, accomplish preparation, place & finish restoration. b. Select shade, pumice teeth, apply rubber dam, accomplish preparation, place & finish restoration. c. Pumice teeth, select shade, apply rubber dam, accomplish preparation, place & finish restoration d. Select shade, pumice teeth, apply rubber dam, accomplish preparation, place & finish restoration.
25. A chamfer margin is formed as the negative image of a straight-sided cylinder diamond; therefore a chamfer should not be wider than half the diameter of the bur used, otherwise a lip of unsupported enamel results. a. both statements are true b. both statements are false c. statement one is true; statement two is false d. statement one is false; statement two is true
26. The reduction of which of the following represents the <u>most</u> significant advantage of the acid-etch technique a. pulpal irritation c. polymerization shrinkage of the matrix b. microleakage d. coefficient of thermal expansion
27. The hybrid layer, or interdiffusion zone is a. in dentin bonding, the layer in which the hydrophilic resin surrounds the collagen fibers. b. in dentin bonding,, the layer of unfilled adhesive resin which attaches to the composite resin of in composite resins, the layer containing both barium glass and colloidal silica. d. in composite resins, the zone of filler particles just adjacent to the unfilled resin

	28.	Whi	ich of the following are true statements concerning the placement of gingival finish lines for full gold crowns Finish lines should be placed in enamel when it is possible to do so.
		2.	Finish lines must be placed so that they can be duplicated by the impression, without tearing or deforming the impression when it is removed from the mouth.
		3. 4.	In a caries prone individual, it is best to place the finish line subgingival because the gingival sulcus is caries-free. Extending the finish line beyond an acceptable existing restorations is not necessary.
		5.	The deeper the finish line (restoration margin) resides in the gingival sulcus, the greater the inflammatory response of the periodontium.
B			a. all of the above are true b. 1, 2 and 5 c. 1, 2, 4, 5
			2, 4 and 5 only e 1, 4 and 5 only
	29.	a. p	full gold crown preparation, the purpose of the seating groove is to prevent any rotational tendencies during cementation
		C.	help guide the casting to place during cementation provide resistance and retention form two of the above
		-	all of the above
	30.	It is	more difficult to bond to dentin than to enamel because: 1. dentin contains less mineralized tooth structure
(_		2. dentin contains more water3. the presence of the smear layer makes it harder for the adhesive to wet the dentin

© all of the above

b. two of the above

a. one of the above

Name:	Seat #:	40 points total
carefully. All answers should be short	short answer type questions (40 points) t, legible and spell-checked. Answers the swer surrounded by numerous non-corre	at cannot be read will be marked wrong.
Today we will shadow Dr. Iggy as he	prepares to treat a patient requiring a D	O restoration on tooth number 29.
patient begins to question Dr. Iggy at insists on "tooth colored" material. Dr	plains to the patient what he will be resto bout what types of restorative materials of global decision would be made after the p	could be used to restore the tooth. She be small and "tooth colored" material
The state of the s	prepares to apply the rubber dam. The papartially erupted. Dr. Iggy decides to use	BANT COLUMN - ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
(1) #31 is the best cho	e posterior anchor tooth for the rubber da ice. 32 is partially erupted therefore no n #30 is not the best choice because the	
How many teeth (minimal) should Dr.	. Iggy isolate? (2) ≥ 5 is the best answ	er. Try not to end on the canine.
What should Dr. Iggy use to prevent rubber dam,	the rubber dam from slipping off the mos	st anterior tooth? (3) <u>Dental floss, piece c</u>
preparation or a slot preparation. Who conventional or a slot preparation? (4 occlusal restorations or caries in the	occlusal pits and fissues would dictate a marginal ridge would be a contraindicati	the state of the s
proximal box. Dr. Iggy breaks contact	BANG BANG BENGREES IN GERLEN HER SEE SEE SEE SEE SEE SEE SEEL SEE SEE SE	g the Class I portion of the prep drops the tooth on the buccal and lingual walls. The oth structure.
	lingual proximal walls? Justify your answer the conservative size of the preparati	Marie and the second of the se
Should Dr. Iggy bevel the occlusal ca occlusal bearing surfaces.	vomargins? Justify your answer.(6)) No beveling of composite margins on
Give two benefits derived from beveli (7 & 8) Decrease in micro	ng composite resin preparations. leakage; aesthetic blending; etch the en	nds of the enamel rods
What two clinical criteria would determ (9 & 10) Extent of the decay / extend	mine the location of the gingival cavosur I to sound tooth; break contact with a	[1947](R.) 12 12 17 (R.) (R.) (R.) (R.) (R.) (R.) (R.) (R.)

Below you can see three pictures of possible locations for the gingival cavosurface margin (when viewed from the proximal). Picture A has the gingival cavomargin 2 mm above the CEJ. Picture B shows the gingival cavomarginis at the CEJ and picture C shows a gingival margin 0.5 mm below the CEJ.

