

HAI-21301]

HAI-21301 Seat No. _____

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Second Year B. D. S. Examination

June / July - 2017

Dental Materials

Tim	e : 3	Hours] [Total Marks:	70
Inst	ruct	tions: (1) Write each section in separate answer book (2) Draw figures whenever necessary. (3) Figure on right indicate marks. (4) Attempt all the questions.	Ξ.
		SECTION - I	
1	Wha	l Question : at are Dental Ceramics? Give the classification, uses and chods of strengthening the Ceramics. OR	10
1	Full	l Question :	10
	Clas	ssify Dental waxes. Write ideal requirements, composition, role of each ingredient of Inlay wax.	
2	Ans	swer in brief : (Any Five)	10
	(a)	Manipulation steps of Impression compound.	
	(b)	What is green strength?	
	(c)	What is soluble plaster?	
	(d)	What is glass transition temperature?	
	(e)	Composition of Zinc phosphate cement.	
	(f)	Define setting and working time.	
3	Write short notes: (Any Five)		
	(a)	Dental Implants.	
	(b)	Dimensions of colour.	
	(c)	Describe stress & strain graph.	
	(d)	Theories of setting reactions of Gypsum products.	
	(e)	Causes of porosity in acrylic resins.	
	(f)	Setting reaction of Zinc oxide Eugenol Paste.	

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SECTION - II

4	Ful	l Question :	10
	bett	ssify composite resins. Justify how composite resins are ter restorative materials than silver Amalgam in all ects.	
		OR	
4	Ful	l Question:	10
	Cla deta	ssify Dental casting alloys. Describe noble metal alloys in ail.	
5	Ans	swer : (Any Two)	10
	(a)	Bonding between tooth structure with various restorative material.	
	(b)	Modifications of GIC in detail.	
	(c)	Compare and contrast Rubber base & Hydrocolloid impression materials.	
6	Ans	swer in brief : (Any Five)	15
	(a)	Composition of irreversible hydrocolloid.	
	(b)	Bur design.	
	(c)	Difference between resin and porcelain teeth.	
	(d)	Classify Impression materials.	
	(e)	Mercury hazards in dentistry.	
	(f)	Curing cycles of acrylic resin.	