

MK-21301

Seat No.

Second Year B. D. S. Examination January – 2018 Dental Materials

Time: 3 Hours] [Total Marks: 70

Instructions: (1) Write each section in separate answer book.

- (2) Draw figure whenever necessary.
- (3) Figure on right indicates marks.
- (4) Attend all the questions.

SECTION - I

1 Full question:

10

Give the ideal requirements of Impression materials. Classify impression materials and add a note on Irreversible hydrocolloid impression material.

OR

Full question:

Discuss in detail about strength of Amalgam and factors affecting it. What technical consideration will you have when using Silver Amalgam?

2 Answer in brief: (any five)

10

- (a) Types gypsum products
- (b) Define Modulus of elasticity
- (c) What is syneresis n imbibition?
- (d) What is chelation?
- (e) Composition of calcium hydroxide cements.
- (f) Define Flux and Anti flux.

MK-21301] 1 [Contd....

	(a)	Investment materials.	
	(b)	Abrasive and polishing agents.	
	(c)	Describe cavity liners and bases.	
	(d)	Acid etch technique	
	(e)	A-silicone impression materials.	
	(f)	Separating media.	
		SECTION - II	
4	Ful	l question :	10
	Iono	e the composition and biological properties of Glass omer cement. Explain its bonding action to tooth enamel dentin. Add note on recent modifications of GIC.	
		OR	
	Full question:		
	fabr	cribe the causes for various defects occurring during rication of Heat cure acrylic dentures and the methods minimize them.	
5	Answer: (any two)		10
	(a)	Hygroscopic expansion	
	(b)	Casting defects	
	(c)	Mercury hezards	
6	Answer in brief: (any five)		15
	(a)	Composition n condensation of Porcelain.	
	(b)	Inlay wax.	
	(c)	Difference between Impression compound n ZnO eugenol Paste.	
	(d)	Classify dental alloys.	
	(e)	Chemical stages of polymerization.	
	(f)	Pit n fissure sealants.	

15

3

Write short notes: (any five)