

DCB-21301 ]

## DCB-21301

Seat No. \_\_\_\_\_

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## Second Year B. D. S. Examination

July - 2022

## **Dental Materials**

Time: 3 Hours] [Total Marks: 70 Instructions: (1) Write each section in separate answer book. Draw figure wherever necessary. (2)(3) Figures on right indicate marks. **(4)** Answer all the questions. SECTION - I 1 Classify Impression materials. What are hydrocolloid 10 materials? Compare and contrast different hydrocolloid materials in detail. OR Classify various Obturating materials, Discuss Gutta percha in detail. 2 Answer in Brief: (Any Five) 10 (a) Smear layer (b) Chelation (c) Abrasive agents (d) KHN Uses of Zn phosphate cements (e) (f) Sprue Write Short Notes: (Any Five) 3 **15** (a) Brush heap structure (b) Factors affecting setting time (c) Bonding agents (d) Trituration (e) Porosities in casting (f) Denture adhesives

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## **SECTION-II**

4 Classify Dental Cements. Write in detail about composition, 10 properties of GIC. Explain Bilayered technique.

OR

Classify composite resins. Write its composition and manipulation in detail.

5 Write Answer: (Any Two)

10

- (a) Sintering
- (b) Polyether impression material
- (c) MTA
- 6 Answer in Brief: (Any Five)

**15** 

- (a) Compressive strength
- (b) Divestments
- (c) Implant biomaterials
- (d) Gold alloys
- (e) Properties of an Impression paste
- (f) Disinfectants used in dentistry

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