

PAP-21301

Seat No.

Second Year B. D. S. Examination

August - 2020

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) Attend all the questions. SECTION - I What are Casting alloys. Classify different casting alloys 1 10 used in dentistry. Elaborate on Casting technique with diagram. OR Classify acrylic resins. Write a note on composition, polymerization and porosities in Heat cure acrylic resin. $\mathbf{2}$ Answer in brief: (Any Five) 10 Curing cycles (a) (b) Gillmore Needles Ni-Ti wire (c) (d) **Photoinitiators** (e) KHN (f) Rake angle Write Short Notes: (Any Five) 3 15 Metal-ceramic bonding (b) Polishing agents Die stone (c) (d) Dental Varnish Fillers in composite resins (e)

1

[Contd....

Composition of GIC

(f) PAP-21301]

SECTION - II

| 4 | Cla | ssify amalgam. Describe in detail its properties, uses | 10 |
|---|--------------------------------------|--|----|
| | and | different types of failures | |
| | | \mathbf{OR} | |
| | Disc | cuss in detail about Tarnish and Corrosion | |
| 5 | Answer: (Any Two) | | 10 |
| | (a) | Dental Waxes | |
| | (b) | Dental Solder | |
| | (c) | GIC | |
| 6 | Answer in brief : (Any Five) | | 15 |
| | (a) | Hygroscopic expansion | |
| | (b) | Modifications of ZnOE cement | |
| | (c) | Hue, Value and Chroma | |
| | (d) | Stress- strain curve | |
| | (e) | Tissue conditioners | |
| | (f) | Chromatic alginate | |