



JBW-21301

Seat No. _____

Second Year B. D. S. Examination

January - 2020

Dental Materials

Time : 3 Hours]

[Total Marks : 70

- Instructions :** (1) Write each section in separate answer book.
(2) Draw figure wherever necessary.
(3) Figures on right indicate marks.
(4) Attend all the questions.

SECTION - I

- 1** What is Casting. Write a note on different types of casting defects. **10**

OR

- 1** Classify gypsum products and describe in detail their setting reaction, properties and uses. **10**

- 2** Answer in Brief : (Any Five) **10**

- (a) Metamerism
- (b) Modulus of Elasticity
- (c) Ductility and Malleability
- (d) Chromatic Alginate
- (e) Setting reaction of ZnPO₄ cement
- (f) Creep

- 3** Write Short Notes : (Any Five) **15**

- (a) Gillmore Needles
- (b) Polishing agents
- (c) Metal-Ceramic Bond
- (d) Tissue Conditioners
- (e) Bonding agents
- (f) Cold mold seal

SECTION - II

4 Classify Amalgam. Discuss in detail about tarnish and corrosion. **10**

OR

4 Classify impression materials. Discuss in detail about Addition Polysilicone Impression Material. **10**

5 Answer : (Any **Two**) **10**

- (a) Alginate
- (b) Orthodontic wires
- (c) Dental waxes

6 Answer in brief : (Any **Five**) **15**

- (a) Mercury Hazards
 - (b) Anti-cariogenic Cements
 - (c) Porosities in acrylic resin
 - (d) Hue, Value and Chroma
 - (e) Proportional limit and yield strength
 - (f) Fillers in Composites
-