

BACHELOR OF DENTAL SURGERY (2008 COURSE)
SECOND - B.D.S. : WINTER- 2022
SUBJECT : DENTAL MATERIALS

Day : Friday

Time : 09:00 AM-12:00 PM

Date : 17-03-2023

W-5756-2022

Max. Marks : 70

N.B.

- 1) All Questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

- Q.1** Long Essay Questions :(Any **ONE**) **(10)**
- a) Classify impression materials. Discuss addition silicone and condensation silicone elastomeric impression materials.
 - b) Define and classify dental ceramics. Write a note on the composition of dental ceramics and what are the various methods to strengthen dental ceramics.
- Q.2** Short Essay Questions: (any **THREE**) **(15)**
- a) Gypsum and phosphate bonded investment materials.
 - b) Short note on Irreversible hydrocolloids.
 - c) Heat cure denture base resins.
 - d) Casting defects in brief.
- Q.3** Short answer Questions:(Any **FIVE**) **(10)**
- a) Composition of Zinc-Phosphate cement.
 - b) Define Hardness and enumerate tests for hardness.
 - c) Dimensions of color.
 - d) Enumerate abrasives used as finishing and polishing agents.
 - e) Composition of dentifrice.
 - f) Classify dental waxes.

SECTION-II

- Q.4** Long Essay Questions :(Any **ONE**) **(10)**
- a) Classify luting cements. Write in detail about resin cements
 - b) Describe composition, properties, setting reaction and manipulation of silver amalgam in detail.
- Q.5** Short Essay Questions: (any **THREE**) **(15)**
- a) Write a note on direct filling gold.
 - b) Cavity base, liners and varnish.
 - c) 18-8 stainless steel.
 - d) Steps in manipulation of composite resins.
- Q.6** Short answer Questions:(Any **FIVE**) **(10)**
- a) Define karat and fineness.
 - b) Uses of Zinc- oxide Eugenol cement.
 - c) Soldering and welding.
 - d) Define Pickling and give its significance.
 - e) What is Compomer. State its uses.
 - f) Advantages and disadvantages of polycarboxylate cement.

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