

II – B.D.S. (2008 COURSE) : WINTER - 2018

SUBJECT: DENTAL MATERIALS

Day: Friday
Date: 07/12/2018

W-2018-3755

Time: 09.00 AM TO 12.00 NOON
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.
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SECTION-I

- Q.1** Long Essay Questions (**Any ONE**) **(10)**
- a) Classify luting cements and describe in detail about zinc phosphate cement
 - b) What is an amalgam? Describe the composition and amalgamation reaction of silver amalgam. Write a note on high copper silver amalgam alloy.
- Q.2** Short Essay Questions (**Any THREE**) **(15)**
- a) Cavity varnish, bases and liners.
 - b) Write a note on Dentifrices.
 - c) Compare and contrast acrylic teeth and porcelain teeth.
 - d) What is soldering and welding? Write about the procedure of soldering.
- Q.3** Short Answer Questions (**Any FIVE**) **(10)**
- a) Define 'Thixotropy' and give its significance
 - b) Define adhesion and cohesion.
 - c) Define hue, value and chroma.
 - d) Define hardness. Enumerate tests for hardness.
 - e) Enumerate Dental implant materials.
 - f) Define hybrid layer in composites.

SECTION-II

- Q.4** Long Essay Questions (**Any ONE**) **(10)**
- a) Classify impression materials and discuss in detail about irreversible hydrocolloid impression material.
 - b) Classify dental ceramics. Discuss composition, sintering process and methods of strengthening ceramics.
- Q.5** Short Essay Questions (**Any THREE**) **(15)**
- a) Composition and types of GIC.
 - b) Write short note on Casting defects.
 - c) Write note on Gypsum bonded investment materials
 - d) Write short note on manipulation of heat activated denture base resins.
- Q.6** Short Answer Questions (**Any FIVE**) **(10)**
- a) Define modulus of elasticity. Give its significance.
 - b) Classify gypsum products.
 - c) Uses of zinc oxide eugenol cement.
 - d) Enumerate different types of dental waxes.
 - e) Define karat and fineness.
 - f) Enumerate abrasive and polishing agents used in dentistry.