

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

SUBJECT: DENTAL MATERIALS

Day: **Friday**
Date: **08/06/2018**

S-2018-3587

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.

SECTION-I

Q.1 Long Essay Questions (**Any ONE**) (10)

- a) Classify dental ceramics and write in detail about All- ceramic (Metal free ceramic) materials used in dentistry.
- b) Classify impression materials. Discuss composition, manipulation, setting reaction, applications, merits and demerits of zinc oxide eugenol impression material.

Q.2 Short Essay Questions: (**Any THREE**) (15)

- a) High copper silver amalgam alloy.
- b) Addition Silicone impression material.
- c) Write short note on Zinc Phosphate cement.
- d) Write a note on Dentifrices.

Q.3 Short Answer Questions (**Any FIVE**) (10)

- a) Classify casting defects.
- b) Define modulus of elasticity and give its significance.
- c) Enumerate abrasive and polishing agents used in dentistry.
- d) Define hue, value and chroma.
- e) Enumerate dental implant materials.
- f) Define Thixotropy and give its significance.

SECTION-II

Q.4 Long Essay Questions (**Any ONE**) (10)

- a) Discuss in detail about denture base materials and add a note on denture porosities.
- b) Describe in detail the composition, properties, manipulation, merits and demerits of impression compound.

Q.5 Short Essay Questions (**Any THREE**) (15)

- a) Write short note on Hybrid composites.
- b) Composition and types of GIC.
- c) Classify gypsum products and give its applications.
- d) Cavity varnish, bases and liners.

Q.6 Short Answer Questions (**Any FIVE**) (10)

- a) Enumerate different anterior restorative materials.
- b) Classify dental casting alloys.
- c) Enumerate different types of dental waxes.
- d) Define hardness. Enumerate tests for hardness.
- e) Define Creep. Give its significance.
- f) What is pickling? State its importance.