

II – B.D.S. (2008 COURSE) :WINTER - 2017

SUBJECT: DENTAL MATERIALS

Day : Monday
Date : 06/11/2017

W-2017-3497

Time: 09.00 AM TO 12.00 NOON
Max. Marks: 70.

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

SECTION-I

- Q.1** Long Essay Questions (**Any One**) (10)
- a) Give composition of Heat activated Denture Base resins. Write manipulation of Heat activated Denture Base Resin. Explain Denture porosities.
 - b) Classify and discuss gypsum products. Write a note on Hygroscopic setting expansion.
- Q.2** Short Essay Questions (**Any Three**) (15)
- a) What are causes of tarnish and corrosion? Write electrochemical corrosion.
 - b) Tissue conditioners.
 - c) Write ideal requirements for inlay wax. Explain manipulation of inlay wax.
 - d) Gypsum bonded investment materials.
- Q.3** Short Answer Questions (**Any Five**) (10)
- a) Enumerate separating media and write its composition.
 - b) Define Imbibition and syneresis.
 - c) Composition of ZnOE impression material.
 - d) Define hue, value and chroma.
 - e) Composition of ceramics.
 - f) Define creep and write types of creep.

SECTION-II

- Q.4** Long Essay Questions (**Any One**) (10)
- a) Classification of Dental casting alloys. Classify and discuss casting defects.
 - b) What is an amalgam? Write in detail composition, classification of alloy powder and explain setting reaction of high copper alloy and mercury.
- Q.5** Short Essay Questions (**Any Three**) (15)
- a) Composition and types of GIC.
 - b) Classification of impression material.
 - c) Write a note on hybrid composite.
 - d) Methods of strengthening ceramics.
- Q.6** Short Answer Questions (**Any Five**) (10)
- a) Mulling.
 - b) 18-8 stainless steel.
 - c) Flowable composites.
 - d) Cavity varnish, liners and bases.
 - e) Soldering and welding.
 - f) Annealing/ Degassing of Gold foil.

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