

DENTAL MATERIAL SCIENCE

MAY-JUNE 2008

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks = 40

SECTION B (SAQ)

2) Answer the following (any five out of six)

- a) Imbibition and Syneresis.
- b) 18 : 8 steel.
- c) Ductility and Malleability.
- d) Properties of Inlay Wax.
- e) Tissue conditioners.
- f) Glazing of Porcelain.

3) Classify Gypsum products used in Dentistry
What is the importance of setting time of gypsum ? Describe in detail the factors affecting setting time. (1×10=10)

OR

Write short answers ($5 \times 2 = 10$)

i) Give comparison between heat cured and chemically cured acrylic resin.

ii) What is porosity in Acrylic Resin ? What are the causes of porosity in acrylic resin ?

SECTION C

(Conservative Dentistry)

4) Answer the following (any five out of six) ($5 \times 2 = 10$)

a) Modified zinc oxide cement.

b) Galvanism.

c) Blue inlay wax (ideal requirements and composition)

d) High copper alloy.

e) Abrasives.

f) Define and classify dental ceramics.

5. a) Write in detail about casting defects.

OR

b) i) Classify composite. Write in detail about each ingredient with strong emphasis on matrix, filler and coupling agent.

ii) Write in detail about cavity liners and bases.

