

# DENTAL MATERIAL SCIENCE

**MAY 2010**

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

Section B & C Marks : 50

## **SECTION B (25 Marks)**

2) Answer the following : (5x3=15)

- a) Write the requirements of investment materials used in casting procedures
- b) Write in brief about the factors controlling setting time of zinc oxide eugenol impression.
- c) Define tarnish and corrosion. Mention their types.
- d) Write the composition of Dental porcelain and mention the role of each ingredient.

e) Explain syneresis and imbibition. State which impression materials are affected by this phenomenon.

3. Long Answer Question : (1x10=10)

Classify Denture base materials. Write the composition, manipulation and properties of heat cured acrylic resins.

### **SECTION C (25 Marks)**

#### **Conservative Dentistry**

4. Answer the following :(5×3=15)

a) Mat Gold.

b) Classify Bonding Agents. Write mechanism of Bonding.

c) Classify Glass Ionomer cement and write setting reaction.

d) Composition and properties of Inlay casting wax.

e) Write composition and uses and setting reaction of reinforced zinc oxide eugenol cement.

5. Long answer question :(1x10=10)

Classify Silver Alloys.

Write composition and role of each ingredient of Silver Amalgam.