APRIL-2003
SECTION B $-(8 \times 5=40$ marks $)$
3. Write short notes on :
(a) Thermal expansion.
(b) Normal and hygroscopic setting expansions.
(c) Polysulphides.
(d) Mercury health hazards.
(e) Microfilled VLC composite resins.
(f) Implant materials
(g) Phosphate bonded investments.
(h) Metal - Ceramics.

Sub. Code : 4133
[KI 654]


SECTION A $-(2 \times 15=30$ marks $)$

1. Describe the ideal requirements of denture-base materials. Explain the chemical stages of
polymerisation and the curing cycles of heat cure
acrylics.
2. Mention the various casting defects. Explain the causes and remedies for solidification shrinkage
porosities and incomplete castings.
[EJ 654]
OCTOBER - 2003
Sub. Code : 4133
3. Identify the different gypsum products with
reference to their properties and setting characteristics.
4. Mention the various types of Dental waxes.
Describe in detail the ideal requirements, composition
and properties of inlay cesting waxes.
and properties of inlay casting waxes.
5. Mention the various types of Dental waxes.

[KJ 654] Sub. Code: 4133
$\begin{array}{lr}\text { Paper III — MATERIALS USED IN DENTISTRY } \\ \text { Time : Three hours } & \text { Maximum : } 100 \text { marks } \\ \begin{array}{lr}\text { Two hours and forty minutes } \\ \text { for Sec. A and Sec. B } & \text { Sec. A \& Sec. B : } 80 \text { marks } \\ \text { Twenty minutes for Sec. C } & \text { Section C : } \mathbf{2 0} \text { marks }\end{array}\end{array}$
Answer Sections A and B in the SAME Answer Book.
Answer Section C in the Answer Sheet provided.


## FIRST B.D.S. DEGREE EXAMINATION. <br> (Modified Regulations) <br> 

(a) Ideal requirements of Impression materials
(f) Electro formed die
(g) Dental bur design (h) Porosity in acrylic resin
(i) Trituration
(j) Selection of sprue former.

## 1

 (d) Corrosion(c) Hardness tests

Write short notes on : (a) Adhesive bonding (b) Strain hardening SECTION B $-(10 \times 5=50$ marks $)$

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