AUGUST - 2004

**[KL 654]** **Sub. Code : 4133**

FIRST B.D.S. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — MATERIALS USED IN DENTISTRY

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and forty minutes Sec. A & Sec. B : 80 marks

Section C : Twenty minutes Section C : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

1. Define and classify impression materials. Discuss in detail, the composition, gelation process, manipulation and properties of agar agar. (15)

2. Classify direct filling gold and explain its physical properties, manipulation and advantages. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

(a) Composition of alginate.

(b) Factors affecting hygroscopic expansion.

(c) Ozokerite.

(d) Benefits and drawbacks of metal-ceramics.

(e) Stages of annealing.

(f) Chemical stages in addition polymerisation.

(g) Shape memory and super elasticity.

(h) Ductility and its measurement.

(i) Die materials.

(j) Curing.

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