

FEBRUARY - 2005

[KM 654]

Sub. Code : 4133

SECTION B — (10 × 5 = 50 marks)

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      Sec. A & B : 80 marks  
forty minutes

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. Classify Gypsum Products and explain how each one is manufactured. Discuss the properties, composition and manipulation of Gypsum Bonded Investment. (15)
2. Discuss the composition, types, physical properties, manipulation, advantages and disadvantages of Dental Porcelain. (15)

3. Write short notes on :

- (a) Terra Alba.
- (b) Poly ether.
- (c) Factors controlling the setting time of plaster.
- (d) Mercury Toxicity.
- (e) Lamine Technique.
- (f) Requirements of Inlay Wax.
- (g) DICOR.
- (h) Cast structure versus wrought structure.
- (i) Types of stainless steel.
- (j) Brazing.

AUGUST - 2005

[KN 654]

Sub. Code : 4193

SECTION B — (10 × 5 = 50 marks)

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            Sec. A & B : 80 marks  
forty minutes

Sec. C : Twenty minutes                Sec. 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. Classify gold alloys for dental use. Mention the defects in casting and their cause. (15)
2. What are Elastomers? Write in detail about the types composition, properties and manipulation of addition silicone impression material. (15)

3. Write short notes on :

- (a) Interatomic bonds.
- (b) Dimensions of colour.
- (c) Objects of alloying.
- (d) Flux and antflux.
- (e) Requirements of denture base resin.
- (f) Tissue conditioners.
- (g) Setting reaction of dental amalgam.
- (h) Cermetts.
- (i) Thermal expansion of investment materials.
- (j) Base plate wax.