

FEBRUARY - 2006

[KO 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            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.

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. Write in brief the basis of selecting solders, types of solders used in Dentistry and the practical steps in soldering. (15)
2. What is an investment material? Write in brief the composition, properties, setting reaction of Gypsum bonded investment material. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

(a) Surface hardness test.

(b) Viscosity of dental materials.

- (c) Manufacturing method of gypsum products.
- (d) Solidification phenomena of metals.
- (e) Electroplated dies.
- (f) Admixed high copper alloys.
- (g) Thermal expansion of investment material.
- (h) Control of setting time of Zinc phosphate cement.
- (i) G Lazing of Dental porcelain.
- (j) Adhesive cements.

AUGUST - 2006

[KP 654]

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Paper III – MATERIALS USED IN DENTISTRY

Time : Three hours                      Maximum : 100 marks

Descriptive : Two hours and      Descriptive : 80 marks  
forty minutes

Objective : Twenty minutes      Objective : 20 marks

Answer ALL questions.

Write Essay on :

1. Define impression materials and classify them.  
Write in detail about composition, uses, manipulation, properties, advantages and disadvantages of reversible impression materials. (20)
2. What is base metal alloy? Write in detail about dental implant materials. (15)
3. Define tarnish and corrosion. Write in detail about the different types. (15)
4. Write short notes on : (6 x 5 = 30)
  - (a) Hygroscopic setting expansion.
  - (b) Annealing.
  - (c) Mercury Toxicity.

- (d) Investments for base metal alloy casting.
  - (e) Porosities in acrylics.
  - (f) Allergies in dental materials.
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