

Second Year BDS Degree Examinations - August 2014

DENTAL MATERIALS

Time: 3 hrs

Max marks: 100

- Answer all questions
- Write section A and section B in separate answer books(32 Pages).
Do not mix up questions from section A and section B.

Q P Code: 204002 Section A – Prosthodontics

Marks: 50

Essay

(14)

1. Classify impression materials. Explain in detail about irreversible hydrocolloid (Alginate). Add a note on recent advances in alginate impression material.

(3+8+3=14)

Short essays

(2x8=16)

2. Classify dental casting alloys. Discuss casting defects. (3+5=8)
3. Classify denture base resins. Discuss briefly about the properties and stages of setting of heat activated acrylic resins. (3+5=8)

Short notes

(5x4=20)

4. Gypsum bonded investment
5. Soldering and welding
6. Addition silicone impression material
7. Beta titanium
8. Dental stone

Q P Code: 205002 Section B – Conservative Dentistry

Marks: 50

Essay

(14)

1. Discuss the composition, ideal requirements, classification and manipulation of dental inlay waxes in detail (3+3+3+5=14).

Short essays

(2x8=16)

2. Explain the physical properties of dental amalgam
3. Discuss soldering and welding (4+4=8)

Short notes

(5x4=20)

4. Sandwich technique in composites
5. Differentiate cavity liners and bases.
6. Dental bur design.
7. Casting defects.
8. Calcium hydroxide cement and its uses.