

Second Year BDS Degree Examinations -September 2013

DENTAL MATERIALS

Time: 3 hrs

Max marks: 100

- *Answer all questions*
- *Write section A and section B in separate answer books. Do not mix up questions from section A and section B.*

Q P Code: 204002 Section A – Prosthodontics

Marks: 50

Essay

(14)

1. Define an impression. Discuss the uses, composition and setting reaction of elastomeric impression materials. (2+2+5+5=14)

Short essays

(2x8=16)

2. Classify dental casting investments. Explain in detail about gypsum bonded investment. (3+5=8)
3. Classify base metal alloys. Mention about stainless steel, cobalt chromium nickel and beta titanium alloys. (2+6=8)

Short notes

(5x4=20)

4. Crystalline and non crystalline structures.
5. Irreversible hydrocolloid
6. Maxillofacial prosthetic materials.
7. Fluxes and anti fluxes
8. Stress and strain

Q P Code: 205002 Section B – Conservative Dentistry

Marks: 50

Essay

(14)

1. Classify direct filling gold. Discuss the techniques for removal of surface impurities. Add a note on compaction of direct filling gold (4+5+5=14)

Short essays

(2x8=16)

2. Discuss mercury toxicity and mercury hygiene (3+5=8)
3. Define and classify dentine bonding agents (4+4=8)

Short notes

(5x4=20)

4. Tarnish and corrosion
5. Sandwich technique
6. Shape memory and super elasticity
7. Modified zinc oxide eugenol cement
8. Indirect composite inlays