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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

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