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Second Year BDS Degree Examinations - July 2016

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)

 Classify investment materials. Describe the composition of phosphate bonded investment material and describe how will you compensate for casting shrinkage of dental casting alloy (3+3+8=14)

Short essays (2x8=16)

- Mention the composition of heat cure denture base resin. Describe briefly about the role of each ingredient and describe the properties of heat cure resin. (3+5=8)
- Classify impression materials. Write the composition, setting reaction and different types of addition silicone. (3+5=8)

Short notes (5x4=20)

- 4. Imbibition and syneresis
- Modulus of elasticity
- Die materials
- Denture reliners
- 8. Incomplete casting

Q P Code: 205002 Section B - Conservative Dentistry Marks: 50

Essay (14)

 Classify dental cements. Discuss the types, setting reaction, advantages, disadvantages and modification of zinc oxide eugenol cements (3+3+3+5=14)

Short essays (2x8=16)

- Types of dental amalgam alloys and amalgamation reaction (4+4=8)
- 3. Discuss micro filled composite resins

Short notes (5x4=20)

- 4. Acid etching
- Glass ionomer cements
- Mercury hygiene procedures
- Inlay wax
- Sprues

