

Second Year BDS Degree Supplementary Examinations - February 2015

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 Gypsum products. Write in detail about Setting reaction and Setting expansion in Gypsum products. Add a note on accelerators and retarders of setting reaction. (3+4+7=14)

Short essays

(2x8=16)

2. Classify investment materials. Explain in detail about phosphate bonded investment. (3+5=8)
3. Mention the ideal requirements of impression materials. Explain the composition and manipulation of impression compound. (3+2+3=8)

Short notes

(5x4=20)

4. Nitinol
5. Physical stages of polymerization
6. Flux and anti flux
7. Polishing agents
8. Polyether impression material

Q P Code: 205002 Section B – Conservative Dentistry

Marks: 50

Essay

(14)

1. Classify composite resins based on their particle size and explain in detail its method of application to the tooth structure. (5+9=14)

Short essays

(2x8=16)

2. Classify dental ceramics. Explain briefly CAD-CAM in ceramics. (4+4=8)
3. Explain briefly tarnish and corrosion. (4+4=8)

Short notes

(5x4=20)

4. Reinforced glass ionomer cements.
5. Cavity liners.
6. Mercury toxicity and mercury hygiene.
7. Gold foil.
8. Reinforced Zinc oxide eugenol cement