

Second Year BDS Degree Supplementary Examinations – January 2017

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 composition and setting reaction of zinc oxide eugenol impression paste. (3+5+6=14)

Short essays

(2x8=16)

2. Describe casting defects in detail.
3. Explain hygroscopic setting expansion in detail.

Short notes

(5x4=20)

4. Stages of polymerization.
5. Disinfection of impression materials.
6. Ductility and malleability.
7. Stainless steel.
8. Epoxy resin.

Q P Code: 205002 Section B – Conservative Dentistry

Marks: 50

Essay

(14)

1. Mention the composition of glass ionomer cements. Explain in detail the setting reaction of glass ionomer cements and various types of glass ionomer cements. (4+4+6=14)

Short essays

(2x8=16)

2. Classify inlay waxes. Explain its properties and applications. (2+6=8)
3. Classify dental amalgam. Describe in detail the setting reaction of dental amalgam. (2+6=8)

Short notes

(5x4=20)

4. Nitinol
5. Rake angle and clearance angle
6. Smear layer
7. Annealing in direct filling gold
8. Zinc phosphate cement