

MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – JUNE 2010****SUBJECT: DENTAL MATERIALS (ESSAY)
(NEW REGULATION)**

Monday, June 21, 2010

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.

1. Give the composition of heat cure acrylic denture base materials. Explain in detail about the physical stages of mixing and curing cycles of acrylic resins.

(2+4+4 = 10 marks)

2. Explain in detail about various methods of strengthening dental ceramics.

(10 marks)

3. **Write short notes on:**

3A. Dental stone

3B. Hydrophilic addition polysilicone impression materials

3C. Ductility and malleability

3D. Microhardness testing methods

3E. Coring and homogenization

3F. Composition and manipulation of zinc phosphate cement

3G. Manufacturing of dental amalgam alloy powder

3H. Desorption and condensation of direct filling gold

3I. Metallic implant materials

3J. Casting ring liners

(4×10 = 40 marks)



MANIPAL UNIVERSITY**SECOND BDS DEGREE EXAMINATION – NOVEMBER 2010****SUBJECT: DENTAL MATERIALS (ESSAY)
(NEW REGULATION)**

Monday, November 29, 2010

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.

1. Give the composition, manipulation, setting reaction, merits and demerits of Zinc oxide eugenol impression paste.

(3+2+1+2+2 = 10 marks)

2. Classify silver amalgam alloy powder. Explain amalgamation reaction in low copper and high copper amalgams. Add a note on creep in amalgam.

(2+3+2+3 = 10 marks)

3. **Write short note on:**

- 3A. Modulus of elasticity
3B. Micro hardness testers
3C. Eutectic alloy
3D. Slow and fast curing methods in heat cure acrylic
3E. Dental stone
3F. Unmodified ZOE cement
3G. Types of bonding in metal-ceramics
3H. Techniques of soldering
3I. Ideal requirements of inlay pattern wax
3J. Sprue former

(4×10 = 40 marks)

