

MANIPAL UNIVERSITY
SECOND BDS DEGREE EXAMINATION – JULY 2017
SUBJECT: DENTAL MATERIALS (ESSAY)

Friday, July 21, 2017

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

Answer ALL the questions:

1. What are resilient liners? State the ideal requirements of resilient liners. Discuss in detail about various materials used as resilient liners. Add a note on problems associated with the use of resilient liners.

(1+3+4+2 = 10 marks)

2. Discuss in detail about the composition of dental composite resins.

(10 marks)

3. **Write short notes on:**

- 3A. Hydrophilic addition polysilicone impression materials
- 3B. Comparison between alpha and beta calcium sulphate hemihydrates
- 3C. Microhardness testing methods
- 3D. Parameters of color
- 3E. Coefficient of thermal expansion
- 3F. Trituration of dental amalgam
- 3G. Composition and manipulation of zinc phosphate cement
- 3H. Flux and antflux in dental soldering
- 3I. Metallic implant materials
- 3J. Sprue former

(4 marks × 10 = 40 marks)

