

DENTAL MATERIAL SCIENCE

NOVEMBER 2014

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 50

SECTION -B (25 Marks)

2.Short answer question : (5×3=15)

- a) Define abrasives and polishing agents giving one example of each.
- b) Explain the role of sodium phosphate in alginate impression material.
- c) Mention the role of separating medium in compression moulding technique.
- d) Define investment material. Write composition of phosphate bonded investment material.
- e) Describe in brief back-pressure porosity.

3. Mention the various types of die materials. State the requirements. Describe in brief various die materials (1x10=10)

SECTION-C (25 Marks)
(Conservative Dentistry)

4. Short answer question: (5x3=15)

- a) Describe types of porosities in dental casting
- b) Composition and uses of microfilled composite
- c) Composition and uses of cavity varnish and liners.
- d) Advantages of high copper amalgam.
- e) Composition and role of ingredients of inlay casting wax.

5. Write in detail composition, types, uses and setting reaction of glass ionomer cement.
Enumerate recent advances of glass ionomer cement. (1x10=10)

