

# Question Paper

Exam Date & Time: 06-Dec-2019 (02:15 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND BDS DEGREE EXAMINATION - DECEMBER 2019

SUBJECT: DENTAL MATERIALS

Friday, December 06, 2019 (14:15 - 17:00)

Marks: 60

Duration: 180 mins.

Answer all the questions.

- 1.) Draw a neat labelled diagram of Stress-Strain curve for a ductile material. Explain in detail about yield (10) strength and modulus of elasticity with two dental examples each. (2+4+4 = 10 marks)
- 2.) Give the composition, setting reaction and bonding reaction of glass ionomer cements. Add a note on (10) reasons for mildness to pulp and anticariogenic activity of glass ionomer cements. (2+2+2+4 = 10 arks)
3. **Write short notes on:**
  - 3A) Viscoelasticity (4)
  - 3B) Annealing heat treatment of work hardened metal (4)
  - 3C) Separating medium (4)
  - 3D) Any four abrasive agents (4)
  - 3E) Double mix impression techniques of elastomeric impression materials (4)
  - 3F) Microfilled composites (4)
  - 3G) Metal-ceramic bonding (4)
  - 3H) Incomplete casting (4)
  - 3I) Inlay wax (4)
  - 3J) Gypsum bonded investment materials (4)

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