

Question Paper

Exam Date & Time: 08-Jul-2023 (02:00 PM - 05:00 PM)

SECOND BDS DEGREE EXAMINATION - JULY 2023

SUBJECT: DENTAL MATERIALS

Marks: 60

Duration: 165 mins.

Answer all the questions.

- 1) Classify denture base resins. List the ideal requirements of denture base resins. Write in detail about the physical & chemical stages of interaction between the polymer & monomer in heat cured denture base resins.

(2+3+2½+2½ = 10 marks)

- 2) Discuss the composition, setting reaction and biological properties of a conventional glass ionomer cement. Explain the mechanism of bonding of glass ionomer to the tooth structure.

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

3. Short Answer Questions:

- 3A) Modulus of Elasticity
- 3B) Galvanic corrosion.
- 3C) Annealing heat treatment.
- 3D) Manufacture of gypsum products.
- 3E) Composition and gelation reaction of irreversible hydrocolloids.
- 3F) Mat gold.
- 3G) Ni- Ti Orthodontic wire.
- 3H) Localized shrinkage porosity.
- 3I) Metal ceramic bonding.
- 3J) Trituration of dental amalgam

(10x4 = 40 marks)

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