

Question Paper

Exam Date & Time: 04-Jan-2021 (02:15 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND BDS DEGREE EXAMINATION - DECEMBER 2020/JANUARY 2021 SUBJECT: DENTAL MATERIALS

Marks: 60

Duration: 165 mins.

Answer all the questions.

1. What are hydrocolloids? Write in detail about the composition, setting reaction, modifications and uses of irreversible hydrocolloid impression materials.
(1+3+2+3+1 = 10 marks)
2. Classify amalgam alloys. Explain the manufacturing of lathecut and spherical amalgam alloy powders. Write a note on high copper unicompositional amalgam alloy.
(2+4+1+3 = 10 marks)

Answer all the questions.

3. **Write short notes on:**

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| 3A) Factors affecting setting time of gypsum products. | (4) |
| 3B) Principles of Sprue design. | (4) |
| 3C) Cohesive & Non-cohesive gold. | (4) |
| 3D) Soldering flux and antflux. | (4) |
| 3E) Light sources used for composite resins. | (4) |
| 3F) Composition & manipulation of unmodified zinc oxide eugenol cement. | (4) |
| 3G) Curing cycles of heat cure acrylic denture base resins. | (4) |
| 3H) Coefficient of thermal expansion. | (4) |
| 3I) Solid solutions. | (4) |
| 3J) Viscosity | (4) |

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