

Question Paper

Exam Date & Time: 06-Oct-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND BDS DEGREE EXAMINATION - OCTOBER 2021

SUBJECT: DENTAL MATERIALS

Marks: 60

Duration: 165 mins.

Answer all the questions.

- 1.) Describe the manufacture of gypsum products. Give the setting reaction and measurement of setting time in gypsum products.

(4+2+4 = 10 marks)

- 2.) Classify dental cements. Give the composition, manipulation, advantages and disadvantages of Zinc phosphate cement.

(2+3+2+1½+1½ = 10 marks)

3. Write short notes on:

- | | |
|---|---|
| 3A) Microhardness testers. | 4 |
| 3B) Trituration of dental amalgam. | 4 |
| 3C) Any EIGHT major requirements of impression materials. | 4 |
| 3D) Metal-Ceramic bonding. | 4 |
| 3E) Casting machines. | 4 |
| 3F) Compare heat-cure and self-cure denture base resins. | 4 |
| 3G) Thermal conductivity. | 4 |
| 3H) Toxicity evaluation of dental materials. | 4 |
| 3I) Implant materials. | 4 |
| 3J) Investment soldering. | 4 |

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