

**VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)**

**BDS DEGREE EXAMINATION – August 2018
Second Year**

DENTAL MATERIALS

Time: Three hours

Maximum: 100 marks

**SECTION – A
Answer ALL Questions**

I. ESSAY: (1 x 15 = 15)

1. What are elastomeric impression materials? Classify elastomeric impression materials. Give the composition, setting reaction, advantages and disadvantages of additional polysilicone elastomer. Write briefly on Reline Technique of impression making.

II. WRITE SHORT NOTES ON: (3 x 5 = 15)

2. Porosities in denture base resins.
3. Accelerators and Retarders in gypsum products.
4. Tissue conditioners.

III. WRITE BRIEFLY ON: (10 x 2 = 20)

5. Adhesion and Cohesion.
6. Casting shrinkage.
7. Metamerism.
8. Wet field technique in hydrocolloids.
9. Ni-Ti orthodontic wire.
10. Sprue former.
11. Brazing.
12. Ethyl silicate bonded investment.
13. Ductility and Malleability of Metals.
14. Casting ring liner.

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SECTION – B

Answer ALL Questions

IV. ESSAY:

(1 x 15 = 15)

15. Classification of dental cements based on uses. Write ideal requirements of luting cements. Describe the composition, properties and uses of glass ionomer cements.

V. WRITE SHORT NOTES ON:

(3 x 5 = 15)

16. Proportioning of mercury and alloys in silver amalgam restorations.
17. Acid-etch technique.
18. Classification of direct filling gold. Write common characteristics of direct filling gold.

VI. WRITE BRIEFLY ON:

(10 x 2 = 20)

19. Metal-Ceramic bonding.
20. Strain Hardening.
21. IRM.
22. Pickling.
23. Fluxes and anti-flux in soldering.
24. Plasticizers.
25. Admixed alloys.
26. Inlay wax.
27. Three dimensions of color.
28. Investing of wax pattern.

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