

**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:  
20)**

**(10 x 2 =**

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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