

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

**BDS DEGREE EXAMINATION – September 2019
Second Year**

DENTAL MATERIALS

Time: Three hours

Maximum: 100 marks

**SECTION – A
Answer ALL Questions**

I. ESSAY: (1 x 15 = 15)

1. Classify dental waxes. Discuss in detail, requirements, types, composition and properties of Inlay wax.

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

2. Hardness tests
3. Step-growth polymerization
4. Composition and uses of alginate.

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

5. Control of setting time of gypsum product
6. Ring liner
7. Composition of a dentifrice
8. Coupling agent
9. High viscosity glass ionomer cement
10. Triturators
11. Greening
12. Heat sources for soldering
13. Recovery
14. Zirconia

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SECTION – B
Answer ALL Questions

IV. ESSAY: **(1 x 15 = 15)**

15. Classify impression materials. Discuss agar agar in detail.

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

16. Hygroscopic expansion
17. Benefits of finishing and polishing
18. Root canal sealers.

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

19. Small particle composites
20. Cavity liners
21. Mineral trioxide aggregate
22. Creep
23. Copymilling
24. Gap width
25. Porosity in denture base resins
26. Osseo integration
27. Nickel
28. Solid solutions.

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