

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

**BDS DEGREE EXAMINATION – JANUARY 2021
Second Year**

DENTAL MATERIALS

Time: Three hours

Maximum: 100 marks

**SECTION – A
Answer ALL Questions**

I. ESSAY: (1 x 15 = 15)

1. Classify denture base materials. Discuss the composition, manipulation and physical stages of heat activated denture base resins.

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

2. Optical properties of dental materials.
3. Hygroscopic setting expansion of gypsum products.
4. CAD – CAM.

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

5. Phosphate bonded investment material.
6. Tarnish and corrosion.
7. Creep and flow.
8. Sprue
9. NiTi alloys
10. Die spacer
11. Chemistry of addition silicone
12. Youngs modulus
13. Suck back porosity
14. Castable ceramics

SECTION – B
Answer ALL Questions

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

15. Classify dental cements. Write in detail about glass ionomer cement and its recent advances.

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

16. Abrasive and polishing agents.

17. Differentiate between conventional composite resin and microfilled composite resin.

18. Admix alloy.

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

19. Annealing

20. Factors affecting setting of zinc phosphate cement

21. Gold foil

22. Coupling agent

23. Tests for biocompatibility

24. Eames technique

25. Cavity varnishes

26. Fluoride releasing cements

27. Non eugenol pastes

28. Metamerism.

(Sl.No. M23082)