

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

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

DENTAL MATERIALS

Time: Three hours

Maximum: 100 marks

**SECTION – A
Answer ALL Questions**

I. ESSAY: (1 x 15 = 15)

1. Discuss the composition, properties, manipulation, techniques of inlay casting waxes and explain various causes of wax distortion and methods to prevent it.

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

2. Eutectic and peritectic alloys.
3. Biocompatibility of dental materials.
4. Gold alloys.

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

5. Separating media
6. Syneresis and imbibitions.
7. Newtonian fluid.
8. Induction casting.
9. 18-8 stainless steel.
10. Die hardner.
11. Green strength.
12. Thermal coefficient of expansion.
13. Room temperature vulcanizing silicones.
14. Soldering and welding.

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SECTION – B
Answer ALL Questions

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

15. What are dentin-bonding agents? Explain their generations.

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

16. High copper amalgam.

17. Resin modified glass ionomer cement.

18. Direct filling gold.

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

19. Dycal.

20. Microleakage.

21. Smear layer

22. Hazards of mercury.

23. Compomers.

24. Acid etching.

25. Pit and fissure sealants.

26. Flux and antflux in soldering.

27. Zinc polycarboxylate cement.

28. Dentifrices.

(S1.No.M2279)