

PAPER CODE: BD153

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WARANGAL, TELANGANA– 506 002
BDS SECOND YEAR DEGREE EXAMINATIONS: OCTOBER 2025
DENTAL MATERIALS

Time: 3 Hours

Max Marks: 70

Note: Answer all questions

Give Diagrammatic representation wherever necessary with Black Ball point pen/ HB Pencil / any dark colour Pencil.

Write an essay on the following:

2 X 9= 18

1. Classify Casting alloys. Explain Gold alloys and also write on the casting defects. (3+3+3)
2. Classify Denture base resins. Write on the composition and polymerisation of heat cure acrylic. Write on Curing cycle. (2+4+3)

Write short note on the following:

8 X 4 =32

3. Reversible hydrocolloid.
4. Gypsum bonded investment.
5. Sandwich technique.
6. Cold mould seal.
7. Setting reaction of ZOE(ZnO₂-eugenol) paste.
8. Hardness tests.
9. Biocompatibility of dental materials.
10. Titanium.

Write briefly on the following:

10 X 2 =20

11. Fusion temperature of impression compound.
12. Classification of Composite Resin.
13. Hysteresis.
14. Young's modulus.
15. Brush heap structure.
16. Spherulite.
17. Sprue.
18. Cold working.
19. Role of retarder in alginate impression material.
20. Types of Dental Implant Materials.
