

PAPER CODE: BD153

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WARANGAL, TELANGANA– 506 002
BDS SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS:
FEBRUARY, 2026
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 Dental amalgam. Write the manipulation, setting reactions of high and low copper amalgam. (2+3+2+2)
2. Classify Gypsum products. Discuss the composition, properties and uses of dental plaster. (2+3+2+2)

Write a short note on the following:

8 X 4 = 32

3. Agar agar impression materials.
4. Hybrid composite resins.
5. Discuss about 18-8 stainless steel.
6. Microleakage.
7. Tarnish and corrosion.
8. Localised shrinkage porosity.
9. Heat treatment of gold alloys.
10. Phosphate bonded investment.

Write briefly on the following:

10 X 2 = 20

11. Laminate technique.
12. Die spacers.
13. Metal ceramic alloy.
14. Composition of zinc polycarboxylate.
15. Acid etching.
16. Creep.
17. Cavity liners.
18. Sticky wax.
19. Spot welding.
20. Ductility and malleability.
