

General Dental Materials Exam Questions

1. Impression trays
2. Rigid Impression Materials
3. Elastic impression materials: Alginates
4. Elastic impression materials: Polyethers, polysulfides
5. Elastic impression materials: Silicone impression materials
6. Intraoral Scanning Systems
7. Model and die materials
8. Casting models
9. Types of models: study cast, opposing arch cast, primary cast, functional cast, master cast, working cast
10. Types of models: sectioned model, removable die systems, gingiva mask
11. 3D printed dental models
12. Basic properties of impression materials
13. Dental Ceramics Classification by microstructure
14. Dental Ceramics Classification by processing methods
15. Microstructural Classification: Category 1: Glass-based systems
16. Microstructural Classification: Category 2: Glass-based systems with crystalline second phase: Subcategory 2.1: Low to moderate leucite-containing feldspathic glass
17. Microstructural Classification: Category 2: Glass-based systems with crystalline second phase Subcategory 2.2: High leucite-containing glass, glass ceramic
18. Microstructural Classification: Category 2: Glass-based systems with crystalline second phase: Subcategory 2.3: Lithium disilicate glass-ceramic
19. Microstructural Classification: Category 3: Interpenetrating phase ceramic
20. Microstructural Classification: Category 4: Polycrystalline solids
21. Classification based on processing technique: Powder/liquid
22. Classification based on processing technique: Pressable

- 23.** Classification based on processing technique: CAD/CAM
- 24.** Rationale for ceramic material selection: clinical parameters to evaluate
- 25.** Classification of CAD/CAM methods
- 26.** Digital workflow: Scanning
- 27.** Digital workflow: CAD
- 28.** Digital workflow: CAM
- 29.** Chairside CAD/CAM systems
- 30.** Additive manufacturing
- 31.** Classification of dental polymers
- 32.** Natural based polymers
- 33.** Synthetic polymers
- 34.** Construction of macromolecules
- 35.** Characteristics of macromolecules
- 36.** Construction of artificial teeth
- 37.** The PMMA
- 38.** Alternative polymers
- 39.** Chemoplastic procedures
- 40.** Thermoplastic procedures
- 41.** Polymers for veneering
- 42.** Autopolymers
- 43.** Fiber reinforcement polymers
- 44.** Soft standing polymers
- 45.** The use of polymers in dentistry
- 46.** Classification of metals
- 47.** Physical characteristics of metals
- 48.** Structures of metals
- 49.** Cold manufacturing of metals
- 50.** Investing and casting
- 51.** Unification of metal parts: soldering and welding
- 52.** The gold
- 53.** The titanium
- 54.** Alloying and ceramic-veneered metal alloys

55. Metal allergy

56. General requirements of dental cements

57. Temporary cements

58. Zinc phosphate cement and zinc polycarboxylate cement

59. Glass ionomer cement

60. Resin cements