

19/02/22

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Paper Code : BDS-203

(A) (SVSU:2020-21/R)

Enrolment No.

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BDS
2nd YEAR EXAMINATION
DENTAL MATERIALS

Time : 3 Hours]

NOTE: Attempt all questions as per instructions.

[Max. Marks : 70

PART A

(M.M:35)

1. Classify dental cements. Discuss in detail the properties of zinc phosphate cement? (08)
2. Problem based short questions: (6x2 = 12)
 - a) The immersion of gypsum bonded investment material into the water bath was delayed beyond the time of initial set of investment. What will be its effect on setting expansion and what are the other factors governing expansion?
 - b) A new dental material has to be introduced in the market. How will be the biocompatibility of the material checked before using it in the patients?
3. Write short note on:
 - a) Cohesive and Non cohesive Gold
4. MCQs [On Separate Sheet] (5)

PART B

(10)
(M.M.35)

1. Classify Dental Amalgam? Discuss in detail the properties and setting reaction of high copper alloys? (10)
2. Classify impression materials? Discuss Alginate impression in detail. (10)
3. Write Short notes on: (5X3=15)
 - a) Inlay wax
 - b) Type II Gypsum
 - c) Acid Etch Technique

Q. 3. b. Multiple Choice Questions

Note: Each question carries 1 mark. There is no negative marking. Attempt all questions in separate sheet.

1. Decrease in wetting will be seen in case of
 - a) High surface energy of adherend
 - b) Lower contact angle between adhesive and adherend
 - c) Distance between two molecules less than 0.3nm
 - d) Fluoride treated enamel
2. Modulus of elasticity of which material is close to dentin
 - a) Aluminous porcelain
 - b) Type II GIC
 - c) Amalgam
 - d) Cast Gold
3. The Force beyond which material loses its Elastic behavior and becomes plastic is
 - a) Elastic limit
 - b) Yield strength
 - c) Proportional limit
 - d) Ultimate tensile strength
4. When a material has been stressed beyond its proportional limit
 - a) The hardness of metal increase at deformation site
 - b) Ductility of metal increase
 - c) Further plastic deformation becomes easier
 - d) All of the above
5. Hydroquinone is added to commercial denture resins as
 - a) Initiator
 - b. Activator
 - c. Inhibiter
 - d. Modifier
6. Type III hypersensitivity reaction is also known as
 - a) Immediate atopic
 - b) Cytotoxic hypersensitivity
 - c) Immune complex hypersensitivity
 - d) Delayed or Cell mediated hypersensitivity
7. Sulfur contamination from latex gloves inhibits the setting of
 - a) Condensation silicone
 - b) Addition silicone
 - c) Polysulfide
 - d) Polyether
8. Impression material which can be poured again
 - a) Impression Plaster
 - b. Addition silicone
 - c. Alginate
 - d. All of the above
9. The most common accelerator used for dental plaster is
 - a) Sodium chloride > 2%
 - b) Sodium Sulfate > 3.4%
 - c) Potassium sulfate > 2%
 - d) Borate
10. Which of the following leads to delayed expansion of amalgam
 - a) Cu
 - b. Ag
 - c. Zn
 - d. Pt
