

Course No:
Course Title: Dental Materials
Date: 25/3/2012
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine



Mid term Exam
2011/2012
Total Grade:

Instructor Name: Dr. Ahmed Okal.
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question One:

Please choose the correct answer from the multiple-choice:

1. Wrought Alloys is defined as:

- a) Shaped before casting by mechanical force compression or tension.
- b) Shaped after casting by mechanical force compression or tension.
- c) Shaped during casting by mechanical force compression or tension.

2. The quantity of heat passing between the opposite faces is called:

- a) Thermal Expansion.
- b) Thermal Conductivity.
- c) Thermal shrinkage.

3. define as Damage to a solid surface, loss of material, due to relative motion between the surface and a contacting with another surface.

- a) Erosion.
- b) Corrosion.
- c) Wear.

4. The metals always appear in X-ray as a Area

- a) Radio opaque.
- b) Radio lucent.
- c) Red colure.

5. Uses of dental cements:

- a) As a luting agents.
- b) Restorative applications.
- c) Liner or base applications.
- d) All of the above.

6. Film thickness is mean:

- a) the movie in cinema
- b) The thickness of film between two flat surface.
- c) the expansion of dental cement.

7. Success / Failure Factors for cement manipulation are:

- a) Patient Factor
- b) Materials Factors
- c) Operator
- d) All of the above.

8. Composition of simple ZOE:

- a) powder=zinc oxide & liquid = Eugenol
- b) powder=zinc oxide & liquid = phosphoric acid
- c) powder=zinc phosphate & liquid = Eugenol

9. Zinc phosphate cement liquid composition is:

- a) Zinc oxide.
- b) Phosphoric acid.
- c) Eugenol.

10. in glass ionomer there 3 stages:

- a) Dissolution, Gelation, Glazing.
- b) Hardening, Dissolution, Mixing.
- c) Dissolution, Gelation, Hardening.

Course No:
Course Title: Dental Materials
Date: 25/3/2012
No. of Questions: (3)
Time: 1 hour
Using Calculator (No)

University of Palestine



Mid term Exam
2011/2012
Total Grade:

Instructor Name: Dr. Ahmed Okal.
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

11) uses of dental cements:

- permanent and temporary cements
- Restorative applications.
- Liner or base applications.
- All of the above.

12) Elasticity of a body is:

- The body regains its original size and shape when the deformation force is still loaded.
- The property of the body regains to its original size and shape when the deformation force is removed.
- The body cannot regain to its original size and shape when the deformation force is removed.

13) To Increase the potential area for bonding we can do:

- Put water over the material.
- Make mechanical bonding.
- Making Surface Roughness.

Question Two:

Mark True or False opposes each sentence:

- Water accelerates the reaction of Zinc Oxide Eugenol. ()
- For maximum strength we mix powder / liquid ratio 1/4. ()
- If cement contains eugenol, it can be used with resin restorative material. ()
- A glass ionomer cement base may be placed over zinc oxide—eugenol, prior to the placement of resin- based composite. ()
- The Zinc phosphate cement reaction is Exothermic reaction. ()
- When put zinc oxide & eugenol in the teeth acid can penetrate into the dentinal tubules and irritate the pulp. ()
- Irritation to pulp tissues: Resin~Zinc phosphate > GIC> Polycarboxylate > ZOE> Calcium hydroxide. ()
- According to Solubility: ZOE > Polycarboxylate > Zinc phosphate> GIC > Resin cement. ()
- One of Uses of luting agents are Root canal sealer. ()
- Temporary cements are used when the restoration will have to be long-term cementation. ()

Question Three:

Answer just four questions?

- What are the General requirements for luting agents?
- How to extend the setting time of zinc phosphate cement?
- What are the main properties of glass ionomer?
- What are the main properties and uses of calcium hydroxide?
- What are the Problems with amalgams?
- Why the dentists prefer Amalgam?

End of Questions
Good Luck