

## QUIZ 18

### QUIZ ON PROSTHODONTICS

Dr. Adhershitha AR

Assistant Professor, Department of Prosthodontics, Government Dental College, Kottayam.

#### QUIZ: "SUSTAINABLE DENTISTRY IN PROSTHODONTICS – ECO-FRIENDLY MATERIALS & WORKFLOWS"

- Which life cycle stage contributes the most to the carbon footprint of CAD-CAM zirconia crowns?  
A. Sintering phase                      B. Transportation  
C. Milling process                        D. Raw material extraction
- Compared to conventional impressions, intraoral scanning primarily reduces:  
A. Operator fatigue    B. Material waste and transportation  
C. Water consumption    D. Cross-contamination
- Which prosthodontic material has the lowest embodied energy?  
A. Zirconia                                  B. Titanium  
C. PMMA                                    D. Cobalt-chromium
- The concept of "cradle-to-cradle" in prosthodontics emphasizes:  
A. Single-use materials    B. Disposable workflows  
C. Linear consumption    D. Closed-loop recycling
- 3D printing (additive manufacturing) is more sustainable than subtractive manufacturing because:  
A. Better esthetics                      B. Reduced material wastage  
C. Lower equipment cost    D. Faster production
- Which dental waste category has the highest environmental hazard?  
A. Acrylic waste                            B. Gypsum waste  
C. Alginate waste                         D. Amalgam waste
- Which sterilization method is most environmentally sustainable?  
A. Ethylene oxide                        B. Dry heat  
C. Chemical sterilization    D. Autoclaving



- Which parameter is most critical in sustainable prosthodontic treatment planning?  
A. Procedure time                        B. Longevity  
C. Cost                                        D. Patient satisfaction
- Local laboratory collaboration reduces environmental impact by:  
A. Reducing cost  
B. Improving quality  
C. Reducing transport emissions  
D. Increasing speed
- A key indicator of sustainable prosthodontic practice is:  
A. Number of patients treated  
B. Revenue generated  
C. Speed of treatment  
D. Reduction in remakes and revisions

1. A, 2. B, 3. C, 4. D, 5. B, 6. D, 7. D, 8. B, 9. C, 10. D  
ANSWERS