

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)

- Q.23 Explain the technical aspects of metal-ceramic restorations.
- Q.24 Explain the properties and uses of dental cement.
- Q.25 Explain various surface finishing methods.

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Roll No.

5th Sem./ Ceramic Subject : Bio and dental Ceramics

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 They _____ is a key characteristic of bio inert ceramics?
- a) Are resorbed by the body
 - b) Do not react with body tissues
 - c) Bond directly with bone
 - d) Dissolved quickly in the body
- Q.2 _____ is primarily responsible for the bio active properties of bio ceramics?
- a) Alumina
 - b) Zirconia
 - c) Calcium phosphate
 - d) Magnesium oxide
- Q.3 _____ is used in bio ceramics for dental implants due to its toughness?
- a) Silica
 - b) Hydroxyapatite
 - c) Zirconia
 - d) Glass

Q.4 _____ is the primary advantage of using ceramics in dental restorations?

- a) Flexibility
- b) High compressive strength
- c) Low hardness
- d) Low thermal expansion

Q.5 _____ property of the dental ceramics mimic the natural tooth enamel?

- a) High fracture toughness
- b) Optical translucency
- c) Low hardness
- d) High tensile strength

Q.6 _____ is most commonly used for dental dentures.

- a) Zirconia b) Porcelain
- c) Lithium Disilicate d) Alumina

Section-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Dental ceramics is used due to its _____ (Low cost/ High aesthetics and translucency)

Q.8 Glazing in dental ceramics is done to increase _____ (opacity/ esthetics & smoothness)

Q.9 Surface finishing in dental ceramics is done to improve _____ (aesthetics/ Surface roughness)

Q.10 _____ is most used in the metal-ceramic restorations in dentistry. (Titanium/ Gold)

Q.11 _____ alloy is good corrosion resistant. (Nickel-Chromium/ Cobalt-Chromium)

Q.12 Metal alloys coating with ceramics is done to _____. (Reduce weight/ prevent corrosion)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

Q.13 Write the properties of bio ceramics which make it suitable for used it in medical applications.

Q.14 Describe ceramic Implants used in human body.

Q.15 Enlist the physical properties of dental ceramics.

Q.16 Describe the tooth structure along with its parts.

Q.17 Define the term agar and alginate.

Q.18 Definition of abrasive and give its types.

Q.19 Describe the dentures and its types.

Q.20 Differentiate between the dental plaster and dental stone.

Q.21 Define the cavity liner and its application.

Q.22 Define and classify dental cement.