

DENTAL MATERIAL SCIENCE

JUNE/ JULY 2006

Total Duration : Section A + B + C = 3 Hours
SECTION B & C Marks : 40

SECTION B

SAQ (5x2=10)

A) Classify elastomeric impression material. Give the general properties of elastomers.

B) What is tarnish and corrosion ? Give its importance while using Dental materials.

C) Give the biological considerations of Dental materials.

D) What is Gypsum product ? Explain the setting reaction.

E) Give the requirement of Investment materials used for casting metals.

F) What are the requirements of Maxillo facial materials ? Enumerate various Maxillofacial materials.

LAQ (1x10=10)

A) Classify the impression material used in Dentistry. Give its general requirement of impression material and specific properties of elastomeric materials.

OR

A) Dental porcelain advantages and disadvantages of Dental porcelain.

B) Classify Dental Waxes. Give the detail notes on Inlay casting wax.

C) Requirements of Die materials Give the advantages and disadvantages of each Die materials.

SECTION C

(Conservative Dentistry)

SAQ (5x2=10)

A) What is Austenitic stainless steel ? Give two advantages and two indications of Austenitic stainless steel.

B) Write what is the modified zinc-oxide eugenol cement systems contains and give two advantages of the same.

C) Why cannot we place a gold restoration in contact with a silver amalgam restoration in the oral cavity ?

D) What is creep and what is the effect of creep on silver amalgam restoration ?

E) What are water-settable or anhydrous glass-ionomer cements ?

LAQ (1×10=10)

A) Name and write about the three main structural components in a composite resin. Give two examples for each of the component. Give two advantages and two disadvantages of light cured composite resin.