

## CLA-3 Theory Component - M.Tech. Integrated

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\* Required

Part - A, Answer all questions, 30x1=30 marks

..... do not combine with fiber to give a composite application \*

- ☐ Metals
- ☐ Ceramics
- ☐ Polymers
- ☒ Non-metals

For noise dampening, which of the below is used? \*

- ☒ Nylon
- ☐ Poly urethane
- ☐ PET
- ☐ Buna - S rubber



In golf club shafts the following composite is used \*

- ☐ Boron/epoxy
- ☒ Carbon/polyamide
- ☐ Graphite/epoxy
- ☐ Epoxy/polyamide

X-Y-Y-X-X-X-Y-X is an example of \*

- ☐ Cross linked polymer
- ☐ Addition polymer
- ☒ Copolymer
- ☐ Condensation polymer

After the proportionality limit in the stress strain curve, we observe \*

- ☐ Lower yield point
- ☐ Upper yield point
- ☒ Ultimate point
- ☐ Elastic limit

Monomer used in the synthesis of neoprene is \*

- ☐  $\text{F}_2\text{C} = \text{CF}_2$
- ☒  $\text{CH}_2 = \text{C} \cdot \text{Cl} - \text{CH} = \text{CH}_2$
- ☐  $\text{Cl}_2\text{C} = \text{C} \cdot \text{Cl}_2$
- ☐  $\text{CH}_2 = \text{CHCl}$



Weak intermolecular attraction forces are seen in \*

- ☐ Thermosets
- ☐ Thermoplastics
- ☒ Elastomers
- ☐ Copolymers

In place of natural rubber ..... can be used \*

- ☐ Buna-S
- ☐ Buna - N
- ☒ SBR
- ☐ Butyl rubber

In chemical vapour infiltration process the binder used is ..... \*

- ☐ Trimethyl silane
- ☐ Tetramethyl silane
- ☒ Polycarbo silane
- ☐ Poly acetylene

Aramid fibers are used in ..... \*

- ☐ Shoe soles
- ☐ Apparels
- ☐ Packing materials
- ☒ Bullet proof jackets



In fiber reinforced composites longitudinal strength is mainly influenced by

..... \*

- ☐ Fiber strength
- ☐ Fiber orientation
- ☐ Fiber volume fraction
- ☒ Fiber length

In storage battery plates the matrix commonly used is \*

- ☐ Silver
- ☒ Lead
- ☐ Magnesium
- ☐ Copper

Fibers having thin crystals is called as \*

- ☐ Wires
- ☐ Fibres
- ☒ Whiskers
- ☐ Agglomerate



Among the following statements, which is not true for synthetic rubber (SBR)? \*

- ☐ It is used in making footwear
- ☒ It has very good elasticity
- ☐ At higher temperature its shape does not change.
- ☐ It is insoluble in organic solvents

Which of the below polymers show higher crystallinity ? \*

- ☒ Isotactic
- ☐ Atactic
- ☐ Random
- ☐ Syndiotactic

Low dielectric constant is shown by \*

- ☐ PET
- ☒ PTFE
- ☐ Buna - S
- ☐ Nylon 6.12

Which of the following show good flame retardancy characteristic? \*

- ☐ U-PVC
- ☐ P-PVC
- ☐ M-PVC
- ☒ C-PVC



Which catalyst is used in the synthesis of nitrile rubber? \*

- ☐ Ziegler-Natta
- ☐ Pyridine
- ☐ Alkyl lithium
- ☒ Peroxide

Which one of the following is a linear polymer ? \*

- ☒ Nylon
- ☐ Melamine
- ☐ PVC
- ☐ Poly styrene

Hemodialysis tubes are made with \*

- ☐ Thermoplastic polyurethane
- ☒ Polyurethane intermediate
- ☐ Silicone rubber
- ☐ Poly styrene



For use in automobile parts Al-alloys are reinforced to increase their.....

\*

- ☒ Wear resistance
- ☐ Strength
- ☐ Elastic modulus
- ☐ Density

Organic solvent containers are made with \*

- ☐ Poly styrene
- ☐ Poly propylene
- ☒ PET
- ☐ Poly urethane

Glycerol and pthalic acid react to give \*

- ☐ Copolymer
- ☐ Linear polymer
- ☐ Branch polymer
- ☒ Cross link polymer



In thrust vector control system which of the following composite is used ? \*

- ☐ C-SiC
- ☒ SiC-C
- ☐ SiC-SiC
- ☐ Al-SiC

In fiber reinforced composites which constituent will fail last \*

- ☐ Filler
- ☒ Matrix
- ☐ Both fail at same time as its a composite
- ☐ Need more details on composite

Mullite is used in ..... application \*

- ☐ Low temperature
- ☐ Corrosive and Low temperature
- ☐ Corrosive
- ☒ Corrosive and High temperature

..... type of bonding is seen in thermoset plastic polymers \*

- ☐ Ionic
- ☒ Covalent
- ☐ Van der Waals
- ☐ Inter molecular hydrogen bonding





In spheroidized steel, the filler is ..... \*

- ☒ Ferrite
- ☐ Carbon
- ☐ Cementite
- ☐ Brookite

Which one of the below is used as an insulator and also as a lubricant \*

- ☒ PTFE
- ☐ PVC
- ☐ SBR
- ☐ Polypropylene

Tensile strain deformation which occurs after the ultimate amount of stress is ..... \*

- ☐ Lower yield point
- ☒ Necking
- ☐ Yield plateau
- ☐ Elastic limit

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