

NDA 1 2024

CHEMISTRY

POLYMERS AND FERTILIZERS

MCQS



SHIVANGI MA'AM

Which Of The Following Is Used To Make Non-stick Cookware?

- a) Polystyrene
- b) PVC
- c) Polytetrafluoroethylene
- d) More than one of the above

Which Of The Following Is Used To Make Non-stick Cookware?

a) Polystyrene

b) PVC

c) **Polytetrafluoroethylene**

d) More than one of the above

- It is used as a non-stick coating for pans and other cookware because of this property. It is the monomer of Teflon

'BUNA-N', A Famous Polymer, Is Used As _____.

- a) Fabric
- b) Synthetic rubber
- c) Non-stick cookware (plastics)
- d) More than one of the above

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Polymer	Monomer	Uses of Polymer
Glyptal	•Ethylene glycol •Phthalic acid	•Fabric, making paints, coatings
BUNA-N	• 1, 3-Butadiene • Vinyl Cyanide	• Synthetic rubber
Bakelite	•Phenol •Formaldehyde	•Plastic switches, Mugs, buckets
Rubber	•Isoprene (1, 2-methyl 1 – 1, 3-Butadiene)	•Making tires, elastic materials
Nylon-6	•Caprolactam	•Fabric

Which Of The Following Polymer Is Used To Make Bullet Proof Glass?

- a) Glyptal
- b) PMMA
- c) Teflon
- d) More than one of the above

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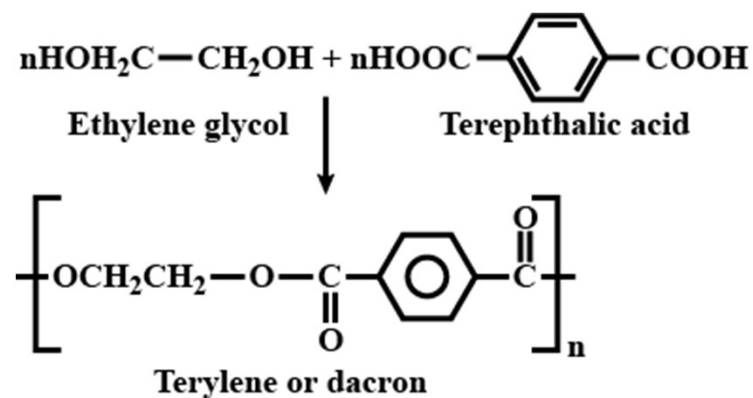
- Its full name is Polymethyl methacrylate (PMMA).
- It is used as a substitute for glass in products such as shatterproof windows, skylights, illuminated signs, and aircraft canopies.

Monomers Used To Prepare Artificial Fibre Dacron Is

- a) Ethylene glycol and Acrylonitrile
- b) Ethylene glycol and Vinyl chloride
- c) Ethylene glycol and Terephthalic Acid
- d) More than one of the above

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One Of The Characteristics Of Polymer Is

- a) High temperature stability
- b) High mechanical strength
- c) High elongation
- d) Low hardness

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c) High elongation

- They can be processed in various ways to produce thin fibres or intricate parts (High elongation)

d) Low hardness

The Non-metal Used In The Vulcanization Of Rubber Is

_____.

a) Phosphorus

b) Sulphur

c) Graphite

d) Iodine

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- Vulcanization of rubber is a process that improves the elasticity of rubber and strength of rubber by heating it in the presence of Sulphur.

Which Of The Following Polymer Is Thermosetting Polymer?

- a) Terylene
- b) Polystyrene
- c) Bakelite
- d) Neoprene

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a) Terylene

b) Polystyrene

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d) Neoprene

- The thermosetting polymer is a polymer that can be irreversibly hardened to the desired shape. It is hardened by the process of curing of a soft solid or viscous liquid prepolymer or resin.

Which Type Of Rubber Ebonite Is?

- a) Natural Rubber
- b) Synthetic rubber
- c) Highly vulcanized rubber
- d) None

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a) Natural Rubber

b) Synthetic rubber

c) Highly vulcanized rubber

d) None

- It is obtained by vulcanizing natural rubber for prolonged periods.
- It has 25-30% Sulphur.

Which One Of The Following Is A Natural Polymer?

- a) Bakelite
- b) Silk
- c) Kevlar
- d) Lexan

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a) Bakelite

b) Silk

c) Kevlar

d) Lexan

- Natural polymers occur in nature and can be extracted. Examples of naturally occurring polymers are silk, wool, DNA, cellulose and proteins, and rubber.

Which Of The Following Is The Strongest Natural Fiber?

- a) Cotton
- b) Jute
- c) Silk
- d) Wool

Which Of The Following Is The Strongest Natural Fiber?

a) Cotton

b) Jute

c) Silk

- SILK: It is a type of natural fibre or animal fibre. Silkworm is responsible for spinning of silk and it is reared to obtain silk. Silk fibre is primarily made up of protein.

d) Wool

What Is Teflon?

a) $(C_2F_4)_n$

b) $(C_4F_2)_n$

c) $(K_2Cr_2O_7)_n$

d) $(CF)_n$

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- A synthetic material that gets used to cover the surface of some object and transmit nonstick properties to it is called Teflon.

Which Of The Following Is Used As A Biofertilizer?

- a) Neem
- b) Azolla
- c) Urea
- d) Potassium

Which Of The Following Is Used As A Biofertilizer?

a) Neem

b) Azolla

c) Urea

d) Potassium

- Azolla pinnata serves as a great biofertilizer for paddy crops (rice).
- It increases the nutrient uptake and grain yield of rice.

Which Of The Following Options Is True About Manure?

- A. It enhances the water-holding capacity of soil
 - B. It makes the soil non-porous to stop exchange of gasses
 - C. it increases the number of friendly microbes
 - D. It improves the texture of the soil
-
- a) A, B and C
 - b) B, C and D
 - c) A, C and D
 - d) A, B and D

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a) A, B and C

b) B, C and D

c) A, C and D

d) A, B and D

- One of the main benefits of composting is that it improves the soil structure.
- Compost helps to break up heavy clay soils, allowing water and air to penetrate more easily.
- It also helps sandy soils to retain moisture and nutrients.

Which Type Of Fertilizer Or Manure Is Useful For Gardening?

- a) Urea
- b) Sodium phosphate
- c) DAP
- d) Vermi Compost

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b) Sodium phosphate

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d) Vermi Compost

- Vermi Compost is the excreta of earthworms, which is rich in humus and hence acts as a fertilizer.
- Vermicompost is produced by earthworms when they decompose the organic matter and excrete the waste.

The Use Of Bio-fertilizer Can Reduce The

- a) Air pollution
- b) Soil pollution
- c) Water pollution
- d) All of the above

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- The use of biofertilizers can reduce the amount of soil pollution. When biofertilizer is used in soil, in place of chemical fertilizer then they do not pollute the water, in the time of contamination with water.

A Natural Fiber Is Obtained From Stem Of Its Plant And The Plant Is Harvested When Its Starts Flowering. The Fiber Is _____

- a) cotton
- b) wool
- c) jute
- d) silk

A Natural Fiber Is Obtained From Stem Of Its Plant And The Plant Is Harvested When Its Starts Flowering. The Fiber Is _____

a) cotton

b) wool

- The jute fiber is obtained from the stem of the jute plant.

c) jute

d) silk

Earthworms Are Considered Friends Of The Farmers. Select From The Following The Correct Reasons For The Same:

- A. Earthworms eat the dead leaves and plants and their droppings fertilise the soil.
 - B. Earthworms eat the weeds and save the main crop
 - C. Earthworms soften the soil by digging underneath.
 - D. The tunnels made by the earthworms provide easy passage to air and water into the soil.
-
- a) B, C and D
 - b) C, D and A
 - c) A and C only
 - d) A, B and C

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- D. The tunnels made by the earthworms provide easy passage to air and water into the soil.

a) B, C and D

- The earthworms reduce both acidity and alkalinity of the soil and create optimum conditions for plant growth.

b) C, D and A

- Earthworms make the soil porous by digging burrows in the soil. Hence they are called friends of the farmers.

- The nitrogenous wastes and other waste products of the earthworms form food for plants. This process of increasing the fertility of the soil by earthworms is called vermicomposting.

c) A and C only

d) A, B and C

Consider The Soil Of A Field In Which A Farmer Is Growing Paddy Crops Over And Over Again Using Excess Chemical Fertilizers And Pesticides In His Fields. In Your Opinion, This Practice Will Make The Soil Of The Fields:

- a) more fertile for other crops
- b) fit for the paddy crops only
- c) more suitable for multiple crops in a year
- d) barren after some time

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- The soil of a field in which a farmer is growing paddy crop over and over again using an excess of chemical fertilizers and pesticides in his fields. This practice will make the soil of the fields barren after some time.

When hot water is placed into an empty water bottle, the bottle keeps its shape and does not soften. What type of plastic is the water bottle made from?

- a) Thermoplastic
- b) PVC
- c) Polyurethane
- d) Thermosetting

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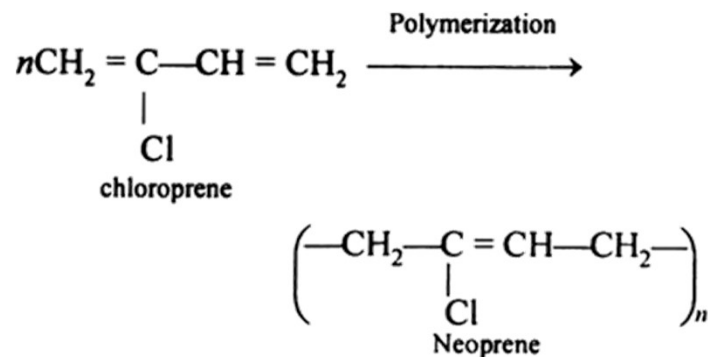
- The plastics which keeps its shape and does not soften i.e. the plastics which when molded once, can not be softened by heating are called Thermosetting plastics.

Synthetic rubber neoprene is the polymer of:

- a) isoprene
- b) chloroprene
- c) caprolactum
- d) acrylonitrile

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- a) isoprene
- b) chloroprene**
- c) caprolactum
- d) acrylonitrile



A polymer with an amide linkage is known as:

- a) nylon-6,6
- b) teflon
- c) Terylene
- d) Bakelite

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a) nylon-6,6

b) teflon

c) Terylene

d) Bakelite

- Polyamides such as Nylon 6 and Nylon 6-6 have amide linkage. Nylon 6, 6 is used to form bristles for brushes, in making sheets, and in the textile industry.

Which Of The Following Is Not An Example Of Thermoplastic?

- a) Polyvinyl chloride
- b) Nylon
- c) Epoxy
- d) Polyesters

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a) Polyvinyl chloride

b) Nylon

c) Epoxy

d) Polyesters

- Thermoplastics include nylon, polyesters, and polyvinyl chloride. Therefore, epoxy is not a thermoplastic material.

Which Of The Following Is Not A Natural Polymer?

- a) RNA
- b) Cellulose
- c) Rayon
- d) Starch

Which Of The Following Is Not A Natural Polymer?

a) RNA

b) Cellulose

c) Rayon

d) Starch

- Natural polymers are polymers that are derived from plants and animals such as RNA, Starch, and Cellulose. Rayon, on the other hand, is a semi-synthetic polymer that is formed by altering a natural polymer. It is produced by the acetylation of cellulose with acetic anhydride in sulphuric acid.

Polymer Formation From The Monomer Starts By

- a) the condensation reaction between monomers
- b) the coordinate reaction between monomers
- c) hydrolysis of monomers
- d) conversion of monomer to monomer ions by protons

Polymer Formation From The Monomer Starts By

a) the condensation reaction between monomers

b) the coordinate reaction between monomers

c) hydrolysis of monomers

d) conversion of monomer to monomer ions by protons

- Polymerization reactions start with the addition reactions between monomers. Condensation polymers are formed through the combination of monomers by eliminating simple molecules. The addition polymers are formed by the addition of the molecules of the monomer to form a large molecule.

Teflon And Neoprene Are Examples Of

- a) Copolymers
- b) Homopolymers
- c) Homopolymers and Monomers
- d) Condensation polymers

Teflon And Neoprene Are Examples Of

a) Copolymers

b) Homopolymers

c) Homopolymers and Monomers

d) Condensation polymers

- Teflon is a homopolymer of monomeric units of tetrafluoro-ethene while Neoprene is a homopolymer of monomeric units of chloroprene.

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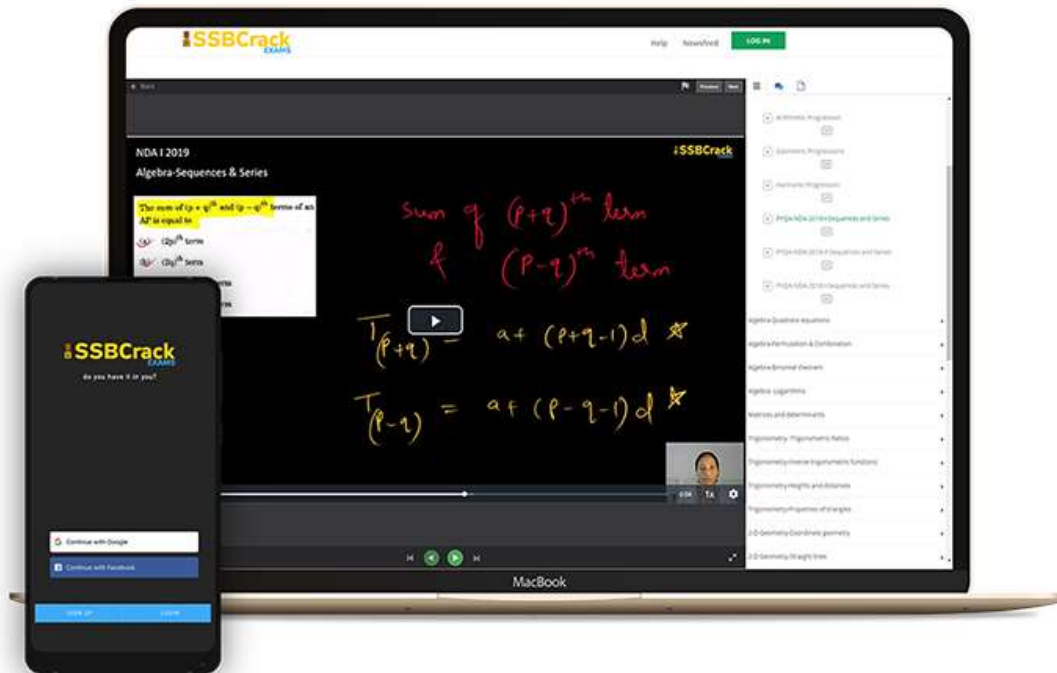
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