



KINETICS

We Nurture The Future

IIT-JEE | Medical | Foundations

Synthetic Fibres and Plastics

Question 1.

Cellulose is made up of a large number of units.

- (a) glucose
- (b) fructose
- (c) protein
- (d) none of these

▼ [Answer](#)

- (a) glucose

Cellulose is made up of a large number of glucose units.

Question 2.

Synthetic fibres are:

- (a) strong
- (b) durable
- (c) hining
- (d) all of these

▼ [Answer](#)

- (d) all of these

Synthetic fibres are strong, durable and shining

Question 3.

Which of the following is not thermoplastics:

- (a) acrylic
- (b) polyethylene
- (c) polystyrene
- (d) melamine

▼ [Answer](#)

- (d) melamine

Melamine is not thermoplastics, it is thermosetting plastic. Acrylic, polyethylene and polystyrene are thermoplastic.

Question 4.

Wire made from which fibre is strongest:

- (a) nylon
- (b) cotton
- (c) wool
- (d) steel

▼ [Answer](#)

(a) nylon

Wire made from nylon fibre is the strongest.

Question 5.

PET is form of:

(a) steel

(b) glass

(c) polyester

(d) nylon

▼ [Answer](#)

(c) polyester

PET is a form of polyester.

Question 6.

Which of the following is used to make non-stick cookwares:

(a) polyester

(b) teflon

(c) rayon

(d) nylon

▼ [Answer](#)

(b) teflon

Teflon is used to make non-stick cookwares.

Question 7.

Which of the following is used for making parachutes and stockings:

(a) polyester

(b) teflon

(c) rayon

(d) nylon

▼ [Answer](#)

(d) nylon

Nylon is used for making parachutes and stockings.

Question 8.

Fabrics made of do not wrinkle easily.

(a) polyester

(b) teflon

(c) rayon

(d) nylon

▼ [Answer](#)

(d) nylon

Fabrics made of polyester do not wrinkle easily.

Question 9.

Wood pulp is used for preparation of:

- (a) polyester
- (b) teflon
- (c) rayon
- (d) nylon

▼ [Answer](#)

(c) rayon

Wood pulp is used for preparation of Rayon.

Question 10.

Which of the following softens on heating and then can be moulded into various shapes:

- (a) thermosetting plastic
- (b) thermoplastic
- (c) polythene
- (d) none of these

▼ [Answer](#)

(b) thermoplastic

Thermoplastic softens on heating and then can be moulded into various shapes.

Question 11.

Which of the following once set do not soften on heating:

- (a) thermoplastic
- (b) thermosetting plastic
- (c) polythene
- (d) none of these

▼ [Answer](#)

(b) thermosetting plastic

Thermosetting plastic once set do not soften on heating.

Question 12.

Food items are stored in plastic containers because they are:

- (a) corrosive
- (b) non-corrosive
- (c) easy to handle
- (d) all of these

▼ [Answer](#)

(b) non-corrosive

Food items are stored in plastic containers because they are non-corrosive.

Question 13.

Bristles of tooth brush are made from:

- (a) thermoplastic
- (b) thermosetting plastic
- (c) nylon
- (d) PET

▼ [Answer](#)

(c) nylon

Bristles of tooth brush are made from nylon because it is soft, flexible and strong.

Question 14.

Which of the following can be recycled:

- (a) carry bags
- (b) plastic chairs
- (c) telephone instruments
- (d) cooker handles

▼ [Answer](#)

(c) telephone instruments

Telephone instruments can be recycled as it is made up of thermoplastics.

Question 15.

Which of the following cannot be recycled:

- (a) plastic toys
- (b) plastic bowls
- (c) plastic covering on electric wires
- (d) ball point pens

▼ [Answer](#)

(c) plastic covering on electric wires

Plastic covering on electric wire cannot be recycled as it is made up of thermosetting plastics.

Question 16.

The fibre that burns readily with smell of burning paper is:

- (a) acrylic
- (b) polyester
- (c) cotton
- (d) rayon.

▼ [Answer](#)

(c) cotton

Cotton fibre burns readily with smell of burning paper.

Question 17.

Which of the following is a thermosetting plastic:

- (a) PVC
- (b) nylon
- (c) teflon
- (d) bakelite

▼ [Answer](#)

(d) bakelite

Bakelite is a thermosetting plastic.

Question 18.

Which of the following is obtained from hair of an animal:

- (a) nylon
- (b) silk
- (c) cotton
- (d) wool

▼ [Answer](#)

(d) wool

Wool is obtained from hair of an animal (sheep).

Question 19.

Which of these fibres is made from raw material obtained from plants:

- (a) rayon
- (b) nylon
- (c) terylene
- (d) polyester

▼ [Answer](#)

(a) rayon

Rayon is made from cellulose obtained from wood pulp (plants).

Question 20.

Which of the following fibre is synthetic:

- (a) cotton
- (b) jute
- (c) nylon
- (d) silk

▼ [Answer](#)

(c) nylon

Nylon is synthetic whereas cotton, jute and silk are natural fibres.

Question 21.

Which of the following fibre is natural polymer:

- (a) rayon
- (b) cotton
- (c) polyester
- (d) polythene

▼ [Answer](#)

(b)cotton

Cotton is natural polymer whereas rayon, polyester and polythene are synthetic polymers.

Question 22.

Which of the following is not biodegradable:

- (a) aluminium foil
- (b) papers
- (c) cow-dung
- (d) rotten fruits

▼ [Answer](#)

(a) aluminium foil

Aluminium foil is not biodegradable.

Question 23.

Rayon is:

- (a) artificial
- (b) nylon
- (c) artificial nylon
- (d) none of these

▼ [Answer](#)

(a) artificial

Rayon is artificial silk

Question 24.

Polymer present in plants is:

- (a) cellulose
- (b) nylon
- (c) rubber
- (d) P.V.C.

▼ [Answer](#)

(a) cellulose

Polymer present in plants is cellulose.

Question 25.

Natural substance is:

(a) plastics

(b) cement

(c) glass

(d) wood

▼ [Answer](#)

(d) wood

Wood is a natural substance where as plastics, cement and glass are man-made substances.

Question 26.

Polymer present in wood is:

(a) nylon

(b) cellulose

(c) polythene

(d) rubber

▼ [Answer](#)

(b) cellulose

Cellulose polymer is present in wood

Question 27.

Which of the following garbage is biodegradable:

(a) broken plastics things

(b) fruit peels

(c) cement

(d) iron wastes

▼ [Answer](#)

(b) fruit peels

Fruit peels are biodegradable.

Question 28.

Polycot is a mixture of:

(a) polythene and cotton

(b) polyester and cotton

(c) polythene and wool

(d) polyester and wool

▼ [Answer](#)

(b) polyester and cotton
Polycot is a mixture of polyester and cotton.

Question 29.

Polywool is a mixture of:

- (a) polythene and cotton
- (b) polyester and cotton
- (c) polythene and wool
- (d) polyester and wool

▼ [Answer](#)

(d) polyester and wool
Polywool is a mixture of polyester and wool.

Question 30.

A synthetic fibre resembling wool is:

- (a) rayon
- (b) nylon
- (c) acrylic
- (d) none of these

▼ [Answer](#)

(c) acrylic
A synthetic fibre resembling wool is acrylic.

[Match the Column-A with Column-B:](#)

Question 1.

Column-A	Column-B
(a) Monomers	(i) chemical molecules formed naturally like silk, cotton etc.
(b) Polymers	(ii) chemical molecules synthesized by human.
(c) Natural polymers	(iii) the process of formation of polymers by synthesis of monomers
(d) Synthetic polymers	(iv) simple chemical molecules made of single unit.
(e) Polymerisation	(v) complex chemical molecules made of many type of single units.

▼ [Answer](#)

Column-A	Column-B
(a) Monomers	(iv) simple chemical molecules made of single unit.
(b) Polymers	(v) complex chemical molecules made of many type of single units.

(c) Natural polymers	(i) chemical molecules formed naturally like silk, cotton etc.
(d) Synthetic polymers	(ii) chemical molecules synthesized by human.
(e) Polymerisation	(iii) the process of formation of polymers by synthesis of monomers

Question 2.

Column-A	Column-B
(a) Rayon	(i) sarees
(b) Nylon	(ii) carpets
(c) Acrylic	(iii) utensils
(d) Polyester	(iv) sweaters
(e) PET	(v) socks

▼ Answer

Column-A	Column-B
(a) Rayon	(ii) carpets
(b) Nylon	(v) socks
(c) Acrylic	(iv) sweaters
(d) Polyester	(i) sarees
(e) PET	(iii) utensils

Question 3.

Column-A	Column-B
(a) Melamine	(i) Non-biodegradable
(b) Acrylic	(ii) Biodegradable
(c) Woollen items	(iii) Thermosetting plastic
(d) Metal cans	(iv) Thermoplastic

▼ Answer

Column-A	Column-B
(a) Melamine	(iii) Thermosetting plastic
(b) Acrylic	(iv) Thermoplastic
(c) Woollen items	(ii) Biodegradable

(d) Metal cans (i) Non-biodegradable

State whether the following statements are True or False:

Question 1.

Polyester fibres are used for making hand knit sweaters.

▼ [Answer](#)

False

Question 2.

Rayon is made from cellulose obtained from wood pulp.

▼ [Answer](#)

True

Question 3.

Plastics are man-made materials.

▼ [Answer](#)

True

Question 4.

A long chain like molecule consisting of a large number of simple small molecules joined to each other by chemical bonds is called polymer.

▼ [Answer](#)

True

Question 5.

Silk fibre is obtained from cocoons of the silk moth.

▼ [Answer](#)

True

Question 6.

Acrylic fibres burn with a sooty flame and shrink to form black beads.

▼ [Answer](#)

True

Question 7.

Wool is a natural fibre obtained from plants.

▼ [Answer](#)

False

Question 8.

Plastics are non-biodegradable.

▼ [Answer](#)

True

Question 9.

We should wear synthetic clothes while working in the kitchen or in a laboratory.

▼ [Answer](#)

False

Question 10.

Nylon fibre is used for making nylon parachutes and ropes for rock climbing.

▼ [Answer](#)

True

Question 11.

Cotton clothes are more comfortable during hot/humid weather.

▼ [Answer](#)

True

Question 12.

Polyester is a synthetic fibrous material.

▼ [Answer](#)

True

Question 13.

Plastic is environmental friendly.

▼ [Answer](#)

False

Question 14.

Thermoplastics is used for making handles of pressure cooker.

▼ [Answer](#)

False

Question 15.

Plastic reacts with air and water.

▼ [Answer](#)

False

Fill in the blanks:

Question 1.

Plastics which gets deformed easily on heating and can be bent easily are known as

▼ [Answer](#)

thermoplastics

Question 2.

Synthetic fibres do not absorb

▼ [Answer](#)

water

Question 3.

A material which is not easily decomposed by natural processes is termed as

▼ [Answer](#)

non-biodegradable

Question 4.

The simplest molecule of a polymer is called

▼ [Answer](#)

monomer

Question 5.

..... has anti-stick property and used as a coating on the surface of frying pan.

▼ Answer

Teflon

Question 6.

A material which gets decomposed through natural processes, such as action by bacteria, is called

▼ Answer

biodegradable

Question 7.

..... is used for making polythene bags.

▼ Answer

Polythene

Question 8.

The 4-R principle is (a) (b) (c) (d)

▼ Answer

- (a) Reduce
 - (b) Reuse
 - (b) Recycle
 - (d) Recover
-

Question 9.

The plastics which when moulded once, can not be softened by heating are called

▼ Answer

thermosetting plastics

Question 10.

Nylon was prepared from, and

▼ Answer

coal, water, air.

Question 11.

Polyester is made up of the repeating units of a chemical called

▼ Answer

ester

Question 12.

Ester have a smell.

▼ Answer

fruity

Question 13.

Polywool is a mixture of and wool.

▼ Answer

polyester

Question 14.

..... fibre resembles wool.

▼ Answer

Acrylic

Question 15.

We should wear clothes in the kitchen.

▼ Answer

cotton

Question 16.

Synthetic fibres are synthesised from raw material called

▼ Answer

petrochemicals

Question 17.

On burning, plastics release gases.

▼ Answer

poisonous

Question 18.

..... fabrics do not wrinkle easily.

▼ [Answer](#)

Polyester

Question 19.

Electric plugs are made up plastics.

▼ [Answer](#)

thermosetting

Question 20.

Synthetic fibres are also called fibres.

▼ [Answer](#)

man-made
