

SCIENCE

16. Explain synthetic polymers briefly.

Ans – Synthetic polymers are made from chemical substances in laboratories or factories. Synthetic polymers are plastic in nature. Nylon and polyester are synthetic fibres.

Eg: – Ethylene (gas) is a monomer obtained from petroleum. Its chemical formula is CH_2 . During polymerization, many units of ethylene get linked to form a chain. This polymer is polyethylene, a kind of plastic, commonly known by the name of polyethene.

A polymer chain may be made of similar units.

Eg: – Polyethylene

Some polymers may be made from two or more different kinds of units.

Eg: – Nylon which is made from a unit of amine (CHN) and adipic acid (CHO).

Scientists evolved a mechanism to polymerize the monomers of certain substances like rubber, silicone, rosins (exuded from trees) and petroleum products such as ethane, propane, benzene, toluene, styrene, esters and others. All these are the raw material for synthetic plastics.

17. Name the first materials to be used for clothings in the east (including India).

Ans – Cotton, wool and silk

18. Name the first materials to be used for clothings in the west.

Ans – Leather, wool and fur

19. How are most synthetic fibres obtained?

Ans – Most synthetic fibres are obtained from petroleum products, natural gas and coal by the process of polymerization.

20. Rayon is prepared from

Ans – Cellulose

21. How is cellulose obtained?

Ans – Cellulose is obtained from cotton, wood and other plant products.

22. Cellulose is a natural polymer but rayon made from it is considered a synthetic fibre. Give reason.

Ans – Though cellulose is a natural polymer but rayon made from it is considered a synthetic fibre because cellulose needs extensive chemical treatment to form rayon.

Answers of Exercise-1

Answer:

1. Subject—She

Predicate—has a good memory

2. Subject—No man

Predicate— can serve two masters

3. Subject—The sea

Predicate—has many varieties of fishes

4. Subject—A bus

Predicate—passed our house

5. Subject—My father

Predicate—got a promotion

6. Subject—Here comes

Predicate—the bus

7. Subject—James

Predicate—has a good memory

8. Subject—A healthy body

Predicate—leads to a healthy mind

9. Subject—The Earth

Predicate—revolves around the Sun

10. Subject—It

Predicate—is a very cold day

Exercise-2

Complete the sentences using suitable subject.

1..... rises in the East.

2.....is good for health.

3..... is money.

4.....is wealth.

5..... is one.

6..... is a hot day.

7..... is a big city.

8..... is the capital of Pakistan.

9..... never fit well.

10..... is the best physician.

HINDI

-Nishedhvaachak vaakyeh kise kehte hain, udhaarane sahit vyakhya kijiye.

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