

18

Question no. 3:
(A)

19

Answer: Polio:

Definition:

Polio may be defined as the condition of inflammation of the grey matter in the spinal cord which is caused by poliovirus.

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Mechanism: The mechanism of infection of polio is given below:

Virus → Mouth/Nose → digestive/respiratory system → Blood stream → Nervous system → Whole Body

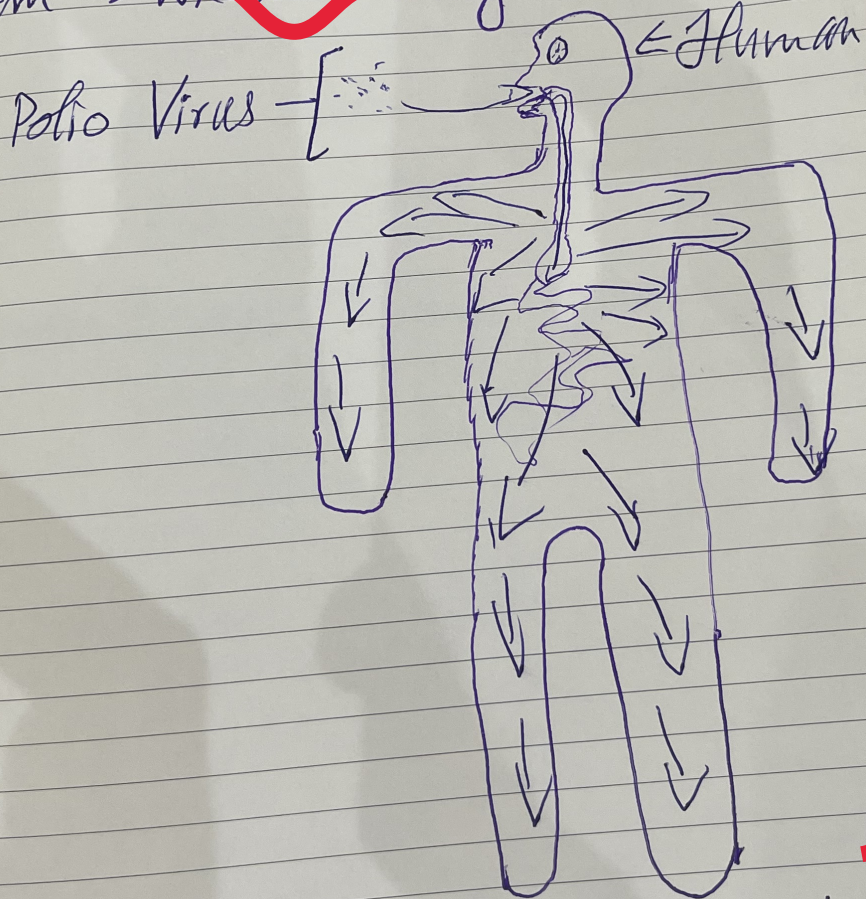


Diagram: Polio Virus Infection.

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Causes: The major causes of polio are given below:

- (i) Person-to-person contact,
- (ii) Oral route (infected phlegm from nose or mouth)
- (iii) The faecal route (ingestion of infected faeces) of contact with individual.
- (iv) Excessive use of intramuscular injections
- (v) No proper past vaccination in children.

Preventions: The preventive measures which can be adopted to prevent polio virus infection are given below:

- (i) There is no cure for polio, but vaccines like inactivated poliovirus vaccine (IPV) and oral poliovirus vaccine (OPV) fight all the body viruses.
- (ii) Ensuring hygiene and encouraging good sanitation practices can aid in preventing polio.

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(iii) Further, contact with infected persons should be avoided at all costs.

Answer: Bio-Fuel (B)

Definition: Bio-fuel may be defined as a fuel that is produced over a short time span from biomass, rather than by the very slow natural processes involved in the formation of fossil fuels, such as coal, oil, natural gas, etc.

Examples: Bio-fuels are great in number here on Earth. However, a few examples of bio-fuels are given below:

- (i) Bio-diesel,
- (ii) Bio-gas,
- (iii) Ethanol,
- (iv) Renewable Diesel.

Reducing Air Pollution by Producing Clean Energy:
Bio-fuels are very helpful in

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08 The production of clean
 09 energy. It is because,
 ethanol ($\text{C}_2\text{H}_5\text{OH}$) - a biofuel-
 10 can produce 48% less CO_2
 content than conventional
 11 gasoline. CO_2 is a major
 contributor to air pollution.
 12 Hence, bio-fuels are very
 helpful in reducing air
 pollution.

Bio-Fuels Play Crucial Role in Pollution-Free Energy:

The production of
 bio-fuels is environment-friendly.
 Therefore, it does not play
 16 a role in global warming.
 The reason is that it
 17 does not produce greenhouse
 gases: CO_2 , N_2 , CFCs, CH_4 , etc.
 18 In addition to it, agricultural
 waste can easily be managed,
 19 which is responsible in
 production of CH_4 . Thus,
 20 bio-fuels play a crucial role
 in pollution-free energy.

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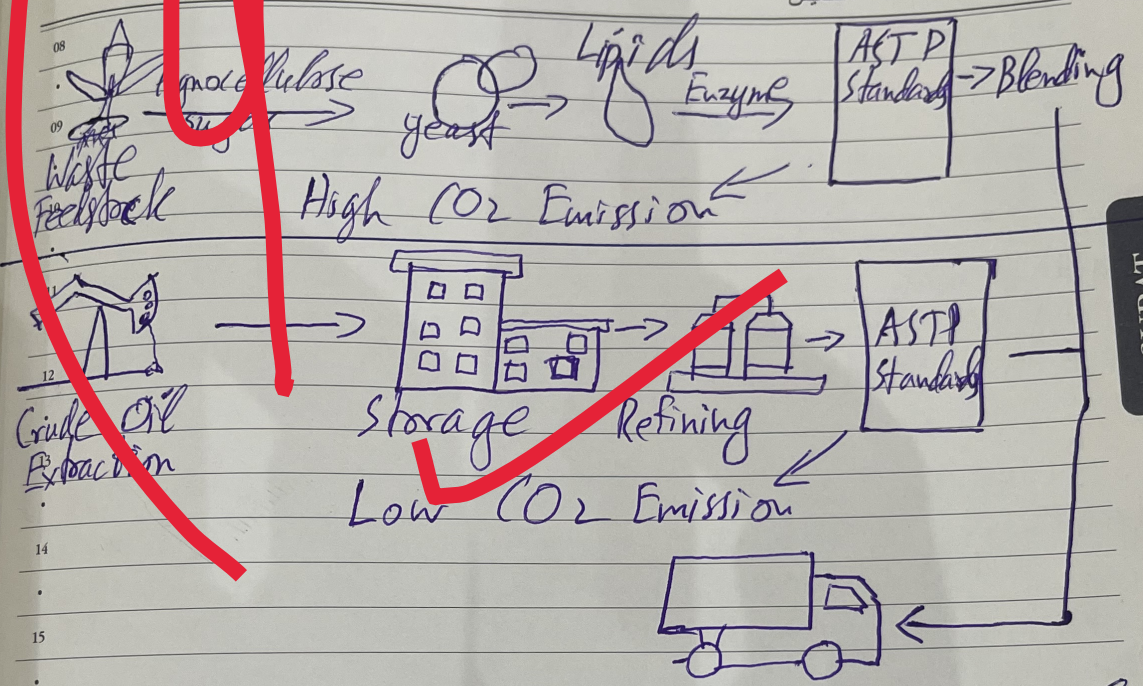


Figure: Bio-fuels play crucial Role in Pollution free Energy.

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