

18

Question no. 3:
(A)

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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

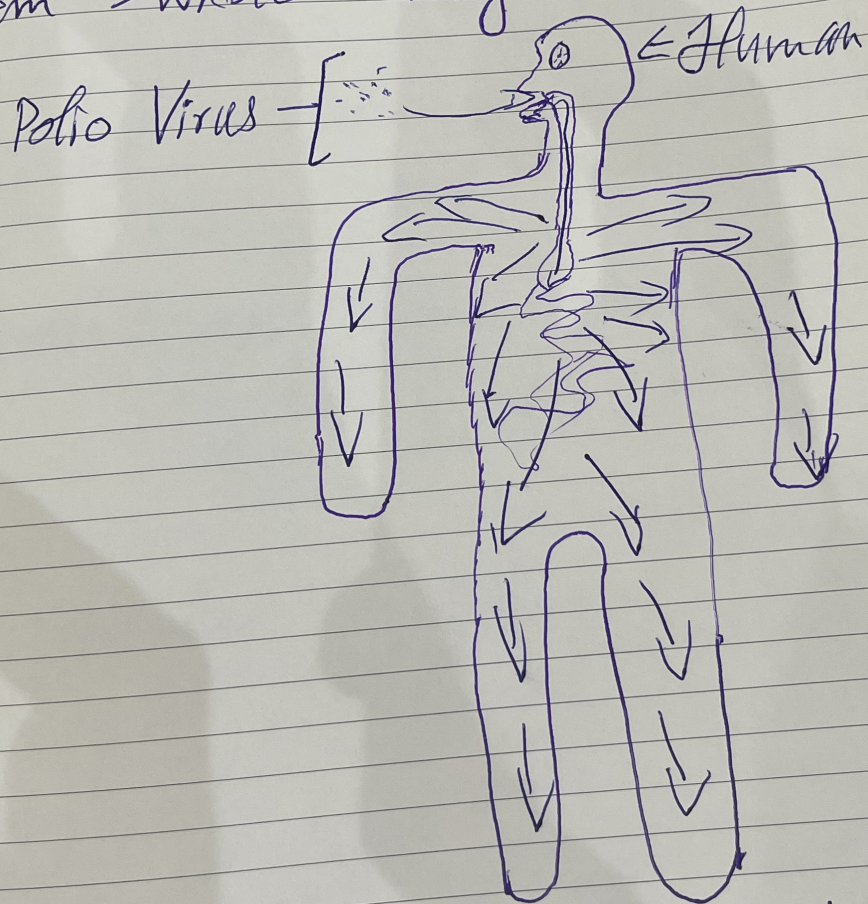


Diagram: Polio Virus Infection.

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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 (any contact with infected faeces of 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 off the virus.
- (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
 10 can produce 48% less CO₂
 11 content than conventional
 12 gasoline. CO₂ is a major
 13 contributor to air pollution.
 14 Hence, bio-fuels are very
 15 helpful in reducing air
 16 pollution.

17 **Bio-Fuels Play Crucial Role
 18 in Pollution-Free Energy:**

19 The production of
 20 bio-fuels is environment-friendly.
 21 Therefore, it does not play
 22 a role in global warming.
 23 The reason is that it
 24 does not produce greenhouse
 25 gases: CO₂, N₂, CFCs, CH₄, etc.
 26 In addition to it, agricultural
 27 waste can easily be managed,
 28 which is responsible in
 29 production of CH₄. Thus,
 30 bio-fuels play a crucial role
 31 in pollution-free energy.

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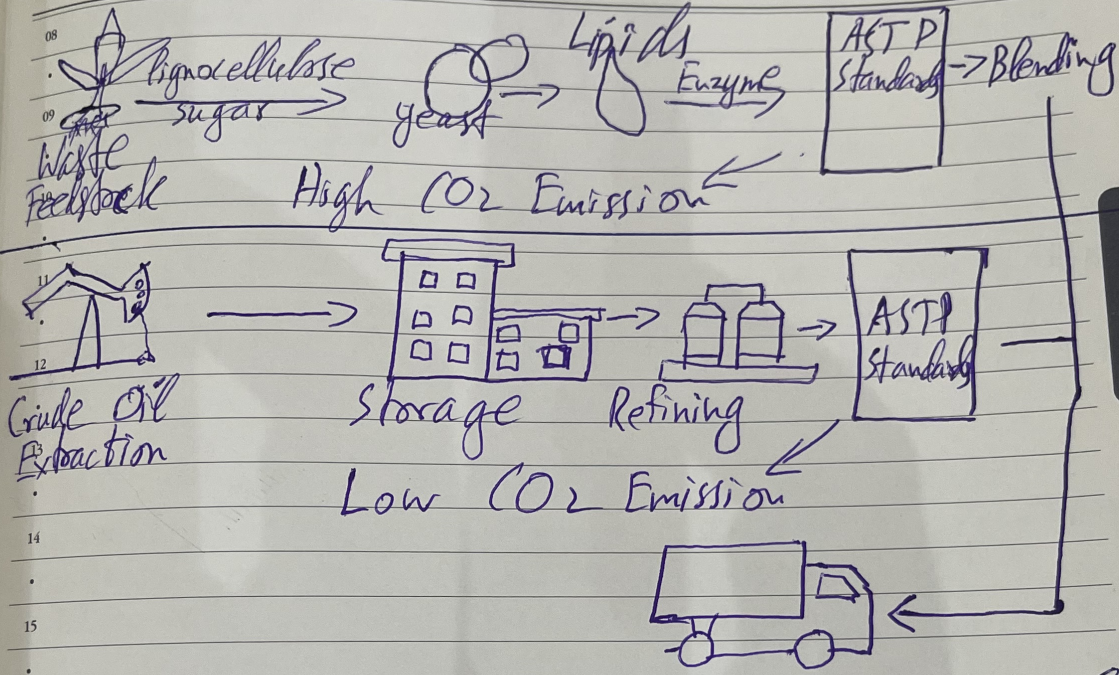
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Figure: Bio-fuels play crucial Role in Pollution free Energy.

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