

Topic: AIDS
Class: B.Sc Part –III (Hons.)
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Group – A

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3. Integration

- After HIV RNA is converted into DNA,
- HIV's integrase enzyme attaches itself to the end of the proviral DNA strands
- It is passed through the wall of the cell nucleus.
- Once the proviral DNA enters the cell nucleus,
- It binds to the host DNA and then the HIV DNA strand is inserted into the host cell DNA.

- HIV integrase inhibitors have been developed to block the transfer of the HIV DNA strand into the host cell DNA.
- After the proviral DNA is integrated into the DNA of the host cell,
- HIV remains dormant within the cellular DNA.

Integration

INTEGRATION

4 HIV DNA enters the CD4 nucleus



- This stage is called latency and the cell is described as 'latently infected'.
- It can be difficult to detect these latently infected cells even when using the most sensitive tests.