
24. Which of the following is not an example of heterogeneous catalytic reaction? [Jan. 10, 2019 (I)]

- (a) Ostwald's process
- (b) Combustion of coal
- (c) Hydrogenation of vegetable oils
- (d) Haber's process

Ans. (b)

24. (b) $C + O_2 \rightarrow CO_2$ (No catalyst is required)

In Ostwald process, Haber's process and hydrogenation of vegetable oils, catalyst (solid) such as Pt/Rh, Fe and Ni are used.