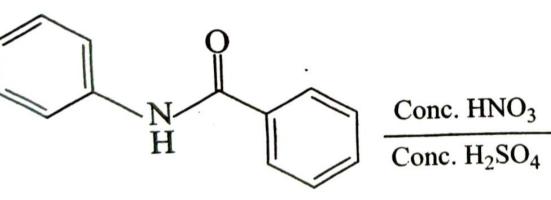
## 22. In the following reaction,

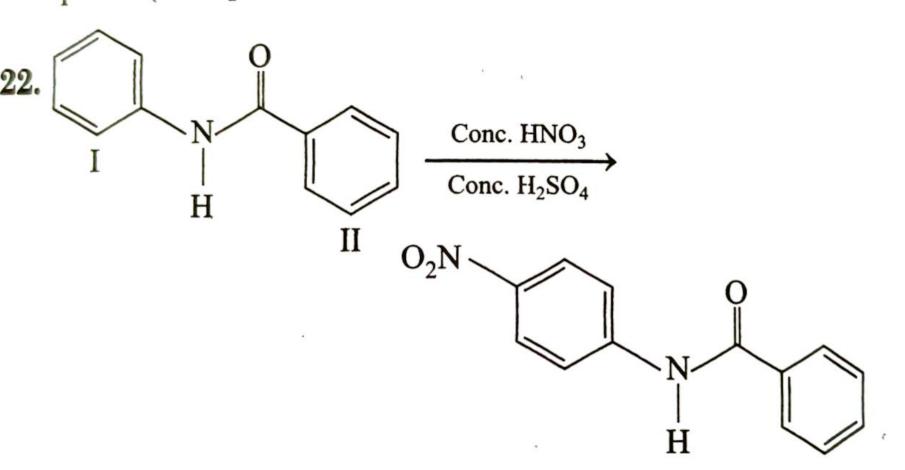


$$(a) \qquad O \qquad NO_2$$

$$(b) \qquad O_2N \qquad O \qquad NO_2$$

$$(c) \qquad O \qquad NO_2$$

$$(d) \qquad O_2N \qquad NO_2$$



Ring-I is activated while ring-II is deactivated towards electrophilic aromatic substitution reaction.