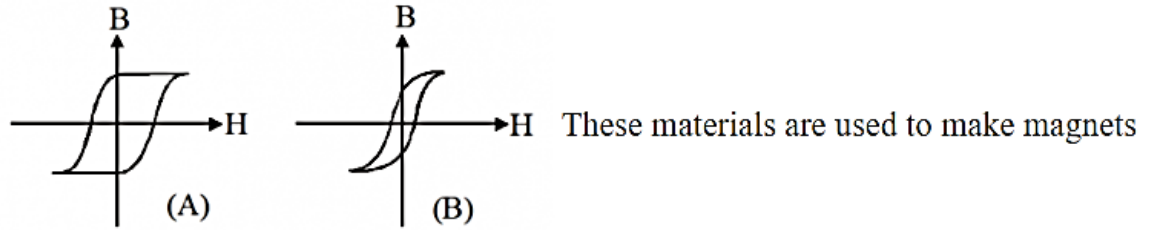


Magnetic Materials

Previous Year JEE Problems

4Q. Hysteresis loops for two magnetic materials A and B are given below :



for electric generators, transformer core and electromagnet core. Then it is proper to use ; (1) B for electromagnets and transformers. (2) A for electric generators and transformers. (3) A for electromagnets and B for electric transformers. (4) A for transformers and B for electric generators. [JEE(Mains) – 2016]

Sol. For Electromagnet and transformers , we require the core that can be magnetized and demagnetized quickly when subjected to alternating current. From the given graph, B is suitable.