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**Question:**

Define – (i) Indicated power, (ii) Mechanical efficiency, (iii) BSFC

**Answer:**

i) Indicated Power (ip) is defined as the power developed by combustion of fuel in the cylinder of engine. It is always more than brake power. ii) Mechanical efficiency :  $\eta_m$  : It is a measure of mechanical perfection of the engine or its ability to transmit power developed in the engine cylinder to the crank shaft . It is defined as the ratio of brake power to indicated power of the engine

iii) **B.S.F.C:** It is the weight of fuel required to develop 1KW of the brake power for period of 1 hour. Unit of B.S.F.C is Kg/KW h. It is defined as the amount of fuel consumed per unit of break power developed per hour.

$$\text{B.S.F.C} = \frac{\text{fuel consumption in Kg/hr}}{\text{Brake power in KW}}$$

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