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Supercharging is the process of _____?

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- A. supplying the intake of an engine with air at a density greater than the density of the surrounding atmosphere**
- B. providing forced cooling air
- C. injecting excess fuel for raising more load
- D. supplying compressed air to remove combustion products fully
- E. raising exhaust pressure

Compression ratio of LC. engines is _____?

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- A. the ratio of volumes of air in cylinder before compression stroke and after compression stroke**
- B. volume displaced by piston per stroke and clearance volume in cylinder
- C. ratio of pressure after compression and before compression
- D. swept volume/cylinder volume
- E. cylinder volume/swept volume

The calorific value of gaseous fuels is expressed in terms of _____?

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- A. kcal
- B. kcal/kg
- C. kcal/m²
- D. kcal/m³**
- E. all of the above

All heat engines utilize _____?

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- A. low heat value of oil**
- B. high heat value of oil
- C. net calorific value of oil
- D. calorific value of fuel
- E. all of the above

Fuel oil consumption guarantees for I.C. engine are usually based on _____?

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- A. low heat value of oil
- B. high heat value of oil**
- C. net calorific value of oil
- D. calorific value of fuel
- E. all of the above

In case of gas turbines, the gaseous fuel consumption guarantees are based on _____?

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- A. high heat value
- B. low heat value**
- C. net calorific value
- D. middle heat value
- E. calorific value

The pressure and temperature at the end of compression stroke in a petrol engine are of the order of _____?

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- A. 4 – 6 kg/cm² and 200 – 250°C
- B. 6 – 12 kg/cm² and 250 – 350°C**
- C. 12 – 20 kg/cm² and 350 – 450°C
- D. 20 – 30 kg/cm² and 450 – 500°C
- E. 30 – 40 kg/cm² and 500 – 700°C

The fuel in diesel engine is normally injected at pressure of _____?

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- A. 5-10 kg/cm²
- B. 20-25 kg/cm²
- C. 60-80 kg/cm²
- D. 90-130 kg/cm²**
- E. 150-250 kg/cm²

The maximum temperature in the I.C. engine cylinder is of the order of _____?

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- A. 500- 1000°C
- B. 1000- 1500°C
- C. 1500-2000°C
- D. 2000-2500°C**
- E. 2500-3000°C

Crankcase explosion in I.C. engines usually occurs as _____?

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- A. first a mild explosion followed by a big explosion**
- B. first a big explosion followed by a mild explosion
- C. both mild and big explosions occur simultaneously
- D. never occurs
- E. unpredictable

The specific fuel consumption per BHP hour for a petrol engine is approximately _____?

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- A. 0.15 kg
- B. 0.2 kg
- C. 0.25 kg**
- D. 0.3kg
- E. 0.35 kg

The inlet valve of a four stroke cycle I.C engine remains open for nearly_____?

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- A. 180°
- B. 125°
- C. 235°**
- D. 200°
- E. 275°

If one cylinder of a diesel engine receives more fuel than the others, then for that cylinder the_____?

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- A. exhaust will be smoky
- B. piston rings would stick into piston grooves
- C. exhaust temperature will be high
- D. engine starts overheating
- E. scavenging occurs**

If the temperature of intake air in IC engines is lowered, then its efficiency will_____?

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- A. increase**
- B. decrease
- C. remain same
- D. increase upto certain limit and then decrease
- E. decrease upto certain limit and then in-crease