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1. The working cycle in case of four stroke engine is completed in following number of revolutions of crankshaft

- (a) 1/2
- (b) 1
- (c) 2
- (d) 4
- (e) 8.

Ans: c

2. In a diesel engine, the fuel is ignited by

- (a) spark
- (b) injected fuel
- (c) heat resulting from compressing air that is supplied for combustion
- (d) ignition
- (e) combustion chamber.

Ans: c

3. Scavenging air in diesel engine means

- (a) air used for combustion sent under pres-sure
- (b) forced air for cooling cylinder
- (c) burnt air containing products of combustion
- (d) air used for forcing burnt gases out of engine's cylinder during the exhaust period
- (e) air fuel mixture.

Ans: d

4. Supercharging is the process of

- (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.

Ans: a

5. Does the supply of scavenging air at a density greater than that of atmosphere mean engine is supercharged ?

- (a) yes
- (b) no
- (c) to some extent
- (d) unpredictable
- (e) depends on other factors.

Ans: b

6. The ratio of indicated thermal efficiency to the corresponding air standard cycle efficiency is called

- (a) net efficiency
- (b) efficiency ratio
- (c) relative efficiency

- (d) overall efficiency
- (e) cycle efficiency.

Ans: c

7. Compression ratio of LC. engines is

- (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.

Ans: a

8. The air standard efficiency of an Otto cycle compared to diesel cycle for the given compression ratio is

- (a) same
- (b) less
- (c) more
- (d) more or less depending on power rating
- (e) unpredictable.

Ans: c

9. The calorific value of gaseous fuels is expressed in terms of

- (a) kcal
- (b) kcal/kg
- (c) kcal/m<sup>2</sup>
- (d) kcal/n?
- (e) all of the above.

Ans: d