Assignment 00

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) “An IC engine is an energy conversion device that converts the thermal energy in fuel into the mechanical energy.” This statement is

- True
- False

No, the answer is incorrect.
Score: 0
Accepted Answers: True

2) The inventor of modern IC engine is

- Henry Ford
- Karl Benz
- Nikolaus Otto
- Rudolph Diesel

No, the answer is incorrect.
Score: 0
Accepted Answers: Nikolaus Otto

3) Which of the followings are the examples of IC engine

- Automotive engine
- Lawnmower engine
- Steam engine
- Wankel engine

1 point
4) An IC engine consuming 20 liters of fuel per hour develops 60 kW power. Specific gravity of the fuel is 0.8 and its calorific value is 50 MJ/kg. The thermal efficiency of the engine (in percentage) is

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Range) 26.99,27.01

5) To be burnt in the engine, a fuel must be in

- Gaseous form
- Liquid form
- Solid form
- Can be anyone of the aforementioned form

No, the answer is incorrect.
Score: 0
Accepted Answers:
Can be anyone of the aforementioned form

6) A Gas turbine works on

- Ericsson cycle
- Rankine cycle
- Brayton cycle
- Stirling cycle

No, the answer is incorrect.
Score: 0
Accepted Answers:
Brayton cycle

7) In case of fluid flow, the stagnation point is a point where

- Velocity is continuously increased
- Velocity is zero
- Velocity becomes infinite
- Velocity becomes maximum

No, the answer is incorrect.
Score: 0
Accepted Answers:
Velocity is zero

8) Thermal efficiency of heat engine cycle is defined as

- Net Work input / Total Heat output
- Net Work output / Total Heat input
- Total Heat output / Net Work input
- Total Heat input / Net Work output
9) Turbojet engines are

- Non air breathing engine
- Air breathing engine
- Jet engine
- Can be both Air breathing and Jet engine type

Score: 0
Accepted Answers: Can be both Air breathing and Jet engine type

10) In case of incompressible flow, downstream of converging nozzle is at

- High pressure and high velocity
- High pressure and low velocity
- Low pressure and high velocity
- None of the above

Score: 0
Accepted Answers: Low pressure and high velocity