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Courses » IC Engines and Gas Turbines

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Unit 2 - Week 0 - Introductory Session

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Certification exam

Course outline

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Week 0 -
Introductory
Session

Quiz :
Assignment 00

Week 1 -
Introduction to
IC Engines

Week 2 - Air
Standard Cycles

Week 3 -
Carburation

Week 4 - Ignition
and Lubrication
Systems

Week 5 -
Alternative
Fuels,
Combustion in
SI and CI
Engines

Week 6 - Fuel
Injection
Systems

Assignment 00

The due date for submitting this assignment has passed.

As per our records you have not submitted this **Due on 2019-01-29, 17:00 IST.**
assignment.

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

- True
- False

No, the answer is incorrect.
Score: 0

Accepted Answers:
True

2) The inventor of modern IC engine is **1 point**

- 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 **1 point**

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

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Week 8 :
Performance
Analysis of
Brayton Cycle

Week 9:
Introduction to
Various Aircraft
Engine and
Performance
Parameters

Week 10:
Components of
Brayton Cycle
Based Power
Plant

Week 11:
Components of
Brayton Cycle
Based Power
Plant

Week 12:
Components of
Brayton Cycle
Based Power
Plant

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

Hint

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 26.99,27.01



1 point

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



1 point

No, the answer is incorrect.

Score: 0

Accepted Answers:

Can be anyone of the aforementioned form

1 point

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

1 point

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

1 point

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

No, the answer is incorrect.

Score: 0

Accepted Answers:

Net Work output / Total Heat input

9) Turbojet engines are

1 point

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



No, the answer is incorrect.

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

1 point

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



No, the answer is incorrect.

Score: 0

Accepted Answers:

Low pressure and high velocity

End