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Courses » IC Engines and Gas Turbines

Announcements **Course** Ask a Question Progress FAQ

Unit 8 - Week 6 - Fuel Injection Systems

Register for Certification exam

Course outline

How to access the portal

Week 0 - Introductory Session

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

SI engine injection

Assignment 06

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-03-13, 23:59 IST.**

1) State true or false: **1 point**

Conduction and radiation are the main modes of heat transfer in the engine cooling since the convection can't be obtained in the proper manner.

- True
- False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

2) After injection in the individual pump and delivery system happens due to **1 point**

- Improper rotation of the plunger
- Inexact working of the spring
- Back pressure generation in the delivery line
- Problems in the cam and follower mechanism

No, the answer is incorrect.

Score: 0

Accepted Answers:

Back pressure generation in the delivery line

3) State true or false: **1 point**

In winter, we add ethylene glycol to the fuel to increase the volume of the fuel.

- True
- False

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injection system, Energy distribution, Engine temperatures, Heat transfer in combustion chambers (contd.)

CI engine injection systems, Air-cooled and liquid-cooled engines, Modern trends

CI engine injection systems, Air-cooled and liquid-cooled engines, Modern trends (contd.)

CI engine injection systems, Air-cooled and liquid-cooled engines, Modern trends (contd.)

Problems

Quiz : Assignment 06

Week 7: Introduction to Gas Turbines

Interaction Session

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

- Delivery line, nozzle and separate pump system
- Needle, nozzle
- Spring, separate pump
- Delivery line, nozzle

No, the answer is incorrect.

Score: 0

Accepted Answers:

Delivery line, nozzle and separate pump system

5) Single point injection system is also known as

- Direct type injection system
- Port type injection system
- Throttle body type injection system
- None of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

Throttle body type injection system

6) The principle of extended surface is to

- Increase the area
- Increase the convection
- Increase the conduction
- Increase the volume of the engine

No, the answer is incorrect.

Score: 0

Accepted Answers:

Increase the area

Increase the convection

7) In individual pump and delivery system, the ----- helps opening and closing of -----.

- Helical groove of plunger, delivery port
- Needle, inlet port
- Spring, inlet port
- Helical groove of plunger, inlet port

No, the answer is incorrect.

Score: 0

Accepted Answers:

Helical groove of plunger, inlet port

8) If the crank angle θ is 30° and time of injection is 0.005 sec, then calculate speed of engine.

- 1000 rpm
- 1200 rpm
- 1500 rpm
- 3000 rpm



1 point



1 point

1 point

1 point

Week 12:
Components of
Brayton Cycle
Based Power
Plant

No, the answer is incorrect.

Score: 0

Accepted Answers:

1000 rpm

9) State true or false:

1 point

In cooling of the engine, extended surfaces are used in the water cooled engine.

True

False

No, the answer is incorrect.

Score: 0

Accepted Answers:

False

10) To get the enhanced cooling of an engine

1 point

Engine size should be larger

Engine speed should be less

Engine speed should be high

Load should be higher

No, the answer is incorrect.

Score: 0

Accepted Answers:

Engine size should be larger

Engine speed should be high

Load should be higher

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