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Unit 8 - Week 6 - Fuel Injection Systems

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Course outline

How to access the portal

Week 0 - Introductory Session

Week 1 - Introduction to IC Engines

Week 2 - Air Standard Cycles

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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

- 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 **1 point**

- 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 **1 point**

- 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 ----------. **1 point**

- 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 30^0 and time of injection is 0.005 sec, then calculate speed of engine. **1 point**

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

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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