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Courses » IC Engines and Gas Turbines

Announcements **Course** Ask a Question Progress FAQ

# Unit 5 - Week 3 - Carburation

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**

Lec 1: Comparison between the Cycles, Actual Cycles and their Analysis

Lec 2: Carburetor, Mixture Requirements

Lec 3: Carburetor, Mixture Requirements (Contd.)

Lec 4: Idling,

## Assignment 03

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-20, 23:59 IST.**

1) A Carburetor can be found in **1 point**

- SI engines only
- CI engines only
- Steam engines only
- All IC engines

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*SI engines only*

2) For the same compression ratio and heat addition, the efficiency order of Otto, dual and diesel cycle is **1 point**

- $\eta_{otto} > \eta_{diesel} > \eta_{dual}$
- $\eta_{diesel} > \eta_{otto} > \eta_{dual}$
- $\eta_{otto} > \eta_{dual} > \eta_{diesel}$
- $\eta_{diesel} > \eta_{dual} > \eta_{otto}$

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
 $\eta_{otto} > \eta_{dual} > \eta_{diesel}$

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Assignment 03		
Week 4 - Ignition and Lubrication Systems		
Week 5 - Alternative Fuels, Combustion in SI and CI Engines		
Week 6 - Fuel Injection Systems		
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		
Week 12: Components of Brayton Cycle Based Power Plant		
	<p><b>No, the answer is incorrect.</b> <b>Score: 0</b></p> <p><b>Accepted Answers:</b> <i>Engine cylinder</i></p> <p>4) The float in the carburetor of an engine controls <span style="float: right;"><b>1 point</b></span></p> <p><input type="radio"/> Flow rate of air</p> <p><input type="radio"/> Flow rate of fuel</p> <p><input type="radio"/> Flow rate of air-fuel mixture</p> <p><input type="radio"/> Level of petrol in the float chamber.</p> <p><b>No, the answer is incorrect.</b> <b>Score: 0</b></p> <p><b>Accepted Answers:</b> <i>Level of petrol in the float chamber.</i></p> <p>5) During Idling, a petrol engine requires <span style="float: right;"><b>1 point</b></span></p> <p><input type="radio"/> Rich mixture</p> <p><input type="radio"/> Lean mixture</p> <p><input type="radio"/> Chemically correct mixture</p> <p><input type="radio"/> Any air-fuel mixture can be used</p> <p><b>No, the answer is incorrect.</b> <b>Score: 0</b></p> <p><b>Accepted Answers:</b> <i>Rich mixture</i></p> <p>6) An engine requires a lean air mixture during <span style="float: right;"><b>1 point</b></span></p> <p><input type="radio"/> Idling</p> <p><input type="radio"/> Starting</p> <p><input type="radio"/> Cruising</p> <p><input type="radio"/> Accelerating</p> <p><b>No, the answer is incorrect.</b> <b>Score: 0</b></p> <p><b>Accepted Answers:</b> <i>Cruising</i></p> <p>7) During starting, a petrol engine requires <span style="float: right;"><b>1 point</b></span></p> <p><input type="radio"/> Stoichiometric mixture</p> <p><input type="radio"/> Rich mixture</p> <p><input type="radio"/> Lean mixture</p> <p><input type="radio"/> Any air-fuel mixture can be used</p> <p><b>No, the answer is incorrect.</b> <b>Score: 0</b></p> <p><b>Accepted Answers:</b> <i>Rich mixture</i></p> <p>8) For a lean air-fuel mixture <span style="float: right;"><b>1 point</b></span></p> <p><input type="checkbox"/> Efficiency of the engine is less.</p>	

- Power output is less.
- Maximum temperature and pressure of the exhaust gas are higher.
- Quantity of fuel in the air-fuel mixture is less than the chemically correct quantity.

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*Power output is less.*

*Quantity of fuel in the air-fuel mixture is less than the chemically correct quantity.*

9) "A simple carburetor is capable of supplying the correct air-fuel mixture for varying engine load and speed." This statement is **1 point**

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*False*

10) The equivalence ratio is the ratio between actual fuel-air ratio to the stoichiometric fuel-air ratio." This statement is **1 point**

- True
- False

**No, the answer is incorrect.**

**Score: 0**

**Accepted Answers:**

*True*

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