Mechanical Engineering Quiz 004 (Mixed)

Quiz Instructions

- Before attempting, carefully read the question text.
- Then choose the correct answer.
- Click on "Submit" to confirm your answer.
- Use the **Question List** in the upper left corner to jump to a certain question.
- **1.** What happens to the specific volume of water when it is heated at 0° C?
 - A) Decreases steadily
 - B) Increases steadily
 - C) First increases then decreases
 - D) First decreases then increases
- 2. Which of the substance can be classified as pure substance?
 - A) Humid air
 - B) Soil
 - C) Sand in water
 - D) Baking soda
- 3. What is the value of latent heat of vapourization at critical point?
 - A) Zero
 - B) Greater than zero
 - C) Less than zero
 - D) Insufficient data
- 4. Which of the following represents an impossible cycle?

A)
$$\oint \frac{dQ}{T} = 0$$

B)
$$\oint \frac{dQ}{T} > 0$$

C)
$$\oint \frac{dQ}{T} < 0$$

- D) none of these
- 5. Which of the following is INCORRECT for reversible adiabatic process?
 - A) dS = 0
 - B) S is constant
 - C) dQ = 0

D)	Q in not constant
6. Wh	ich of the following method of fuel ignition is used in diesel engine?
A)	Spark plug
B)	Fuel injector
C)	Combustion chamber
D)	Heat from compressed air
7. Wh	ich of the following is the other name of isentropic process?
A)	a reversible isothermal process
B)	a reversible adiabatic process
C)	a reversible isobaric process
D)	a reversible isochoric process
8. Wh	ich term best represents the calorific value of gaseous fuel?
A)	kcal
B)	kcal/kg
C)	kcal/m²
D)	kcal/n
9. Wh	ich of the following is TRUE for supercharging?
A)	Supplying higher density of air at intake than the surrounding.
B)	Providing forced cool air at intake.
C)	Raising exhaust pressure
D)	Supplying excess fuel for raising load
10. Ho	ow self ignition temperature of petrol be compared to that of diesel?
A)	Higher
B)	Lower
,	
	Same

Answer Keys

Question	Answer
1	D
2	D
3	A
4	В
5	D

Question	Answer
6	D
7	В
8	В
9	Α
10	Α