

**Module 2020
Homework 1
(Questions 1-10) (2020)**

Given the following gas turbine compressor operation: **1** – **2**

What are the parameters in compressibility in **100** units. The total mass and specific heat ratio are the same as in the previous question: **100**

1. What is the gas constant?

- a. 1000 J/kg.K
- b. 1000 J/kg
- c. 1000 J/kg.K
- d. 1000 J/kg
- e. 1000 J/kg

2. What is the total mass flow?

- a. 1000
- b. 1000
- c. 1000
- d. 1000
- e. 1000

3. What is the total mass flow?

- a. 1000
- b. 1000
- c. 1000, 1000
- d. 1000, 1000
- e. 1000

Given the following gas turbine compressor operation: **1** and **2**

What are the parameters in compressibility in **100** units. The total mass and specific heat ratio are the same as in the previous question: **100**

4. What is the total mass flow and gas constant?

- a. 1000 J/kg.K, 1000
- b. 1000 J/kg.K, 1000
- c. 1000 J/kg.K, 1000
- d. 1000 J/kg.K, 1000
- e. 1000 J/kg.K, 1000

5. What is the total mass flow?

- a. 1000
- b. 1000
- c. 1000, 1000
- d. 1000
- e. 1000

Given the following gas turbine compressor operation: **1** and **2**

What are the parameters in compressibility in **100** units. The total mass and specific heat ratio are the same as in the previous question: **100**

6. What is the total mass flow and gas constant?

- a. 1000

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