

# SSSS Thermodynamics Test Sheet 2017

Names: \_\_\_\_\_

Team and Team Number: \_\_\_\_\_

Raw Score: \_\_\_\_\_

1.

- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
  - e. \_\_\_\_\_
  - f. \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- (2)**

2. **Matching** (each correct worth 0.5 pts)

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. \_\_\_\_\_

3. \_\_\_\_\_

4.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- \_\_\_\_\_

e. \_\_\_\_\_

5.

- a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- (1.5)**

- c. \_\_\_\_\_
  - d. \_\_\_\_\_
  - e. \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- (1.5)**

6.

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_
- d. \_\_\_\_\_
- e. \_\_\_\_\_
- f. **Answer with these steps:**

- i. \_\_\_\_\_ **(0.5)**
- ii. \_\_\_\_\_ **(0.5)**
- iii. \_\_\_\_\_ **(0.5)**
- iv. \_\_\_\_\_

- \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- (1.5)**

g. **Answer with these steps:**

- i. \_\_\_\_\_
- ii. \_\_\_\_\_

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iii. \_\_\_\_\_

15. \_\_\_\_\_

iv. \_\_\_\_\_

7.

a. \_\_\_\_\_

b. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ **(1.5)**

c. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ **(1.5)**

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_ **(0.5)**

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. **Matching:** (each correct worth 0.5 pts)

Example	Form of Energy Transfer (A, B, or C)
Blood circulation in a warm blooded animal	
Sunlight	
Popping popcorn in the microwave	
Space Heater	
The heat you feel from touching a smartphone	
Solar Panels	
Rubbing your hands together	

\_\_\_\_\_ **(2)**