



**FINAL EXIMINATION SEMSTER 1**  
**SMP DARMA BANGSA BANDAR LAMPUNG**  
**ACADEMIC YEAR 2021/2022**

Mata Pelajaran / Subject Matter : Physics  
Kelas / Class : VII  
Semester : 1  
Hari & Tgl. Pelaksanaan / Date : December 6<sup>th</sup>, 2021  
Name :

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**A. Multiple choice**

**Choose the correct answer of the following questions**

1. Water boiling is an example of \_\_\_\_
  - conduction
  - convection
  - radiation
2. The heat always travels from \_\_\_\_ to \_\_\_\_ objects
  - hot to cold
  - cold to cold
  - cold to hot
  - hot to hot
3. The baby chickens are kept warm from the heat lamps demonstrates this type of heat transfer.
  - conduction
  - radiation
  - convection
4. You're holding hands with your best friend. Your friend's hands are REALLY warm and yours are really cold. After a few minutes, this has changed. How might you explain what happened?
  - The cold energy from your hand transferred to your friend's hand through conduction.
  - The heat energy from your friend's hand transferred to your hand through conduction.
  - The cold energy from your hand transferred to your friend's hand through convection.
  - The heat energy from your friend's hand transferred to your hand through convection.
5. The transfer of thermal energy through medium without any flow of the medium is called \_\_\_\_
  - conduction
  - convection
  - radiation
  - convention

6. A heating coil at the bottom of a rice cooker heats the base of a rice pot. The rice pot is filled with a mixture of uncooked rice and water. What are the main processes by which the following transfers take place?

	Transfer of heat from heating coil to base of rice pot	Transfer of heat inside rice pot mixture
a.	conduction	convection
b.	convection	conduction
c.	radiation	convection
d.	conduction	radiation

**For no 7 – 10. State T if it is True or F if it is False**

7.	60 °C = 112 °F	T	F
8.	80 °R = 90 °C	T	F
9.	167 °F = 75 °C	T	F
10.	24 °R = 86 °F	T	F

11. A car was painted black while another car was painted white. Both cars were left in the Sun to dry. The black paint dried more quickly than the white paint. Which property of black paint makes it dry more quickly?

- a. It is a better conductor of heat
- b. It is a better insulator of heat
- c. it is a better absorber of heat
- d. it is a better reflector of heat

12. When ice is heated, it changes to water and water on further heating gets converted to steam. What happens when steam is condensed?

- a. A new substance is formed
- b. No new substance is formed

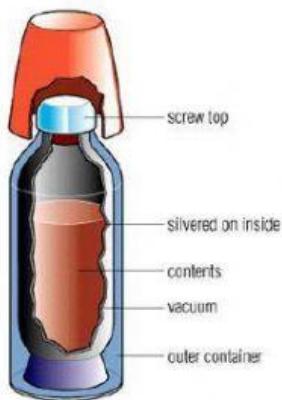
13. Which of the following statements is correct?

- a. Evaporation is a chemical change
- b. Digestion of food is a chemical change
- c. Burning of paper is a physical change

14. A vacuum flask is designed to reduce the rate of heat transfer. What method of heat transfer are reduced by the silvered surfaces?

- a. conduction
- b. radiation
- c. convection

15. Why does a vacuum reduce heat transfer by convection and conduction?



- a. Because the vacuum sucks the heat away
- b. Because the vacuum doesn't contain particles
- c. Because the vacuum stops all transfers of heat