

4. Which material make good insulators?



- A) copper
- B) iron
- C) plastic
- D) metal

5. Which type of material allows heat to move through quickly?



- A) steam
- B) heat source
- C) thermal conductor
- D) pot

6. What do thermal insulators do in a cooler?



- A) keep hot things cold.
- B) keep cold things hot.
- C) keep cold things cold.
- D) keep cold things safe.

Section 1 - Multiple Choice Questions (20 questions, 3 marks each)

1. What are the ends of a magnet called?

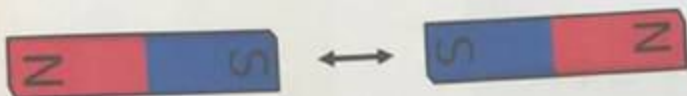
[3]



- A) poles
- B) magnetic field
- C) repel
- D) attract

2. What happens when two south poles face one another?

[3]



- A) nothing
- B) attract
- C) repel
- D) poles

3. What do appliances need to work?

[3]



- A) insulators
- B) rubber
- C) electricity
- D) water



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7. Which material is a good thermal insulator?



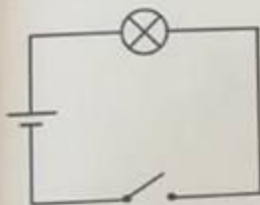
- A) glass
- B) wood
- C) metal
- D) water

8. Which spoon will heat up the fastest when put in hot water?



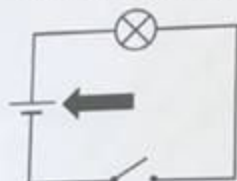
- A) rubber
- B) plastic
- C) metal
- D) wooden

9. What is the **BEST** word to describe the picture below?



- A) insulator
- B) conserve
- C) materials
- D) circuit

10. Which electrical symbol is the arrow pointed at? [3]



- A) battery
- B) switch
- C) bulb
- D) wire

11. Why should we conserve electricity in Abu Dhabi? [3]

- A) to conserve energy
- B) to save money
- C) to reduce pollution
- D) all of the above

12. What is a property of solids? [3]



- A) keep their shape
- B) take the shape of its container
- C) change their size
- D) the particles move from place to place

16. Which material solidifies? [3]



A) wood

B) lava

C) apple

D) wool

17. What needs to be applied for materials need to change state? [3]



- A) melt
- B) energy
- C) reversible
- D) poles

18. What happens to some solid materials when they are heated? [3]



- A) evaporate
- B) metal
- C) freeze
- D) melt

19. What is an example of foam?

[3]



- A) soap bubbles
- B) gas
- C) liquid
- D) sponge

20. Which object has the most mass / most particles?

[3]



A



B



C





D

### Section 2 – Other Question Types (40 Marks)

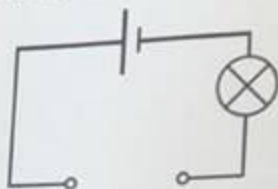
21. Check (✓) if the following materials are magnetic or non-magnetic.




[4]

	Magnetic	Non-magnetic
 metal wire		
 wool		



22. Check (✓) if the material is a conductor of electricity or not, when it is used to complete a circuit.



	Conductor of electricity	Not a conductor of electricity
 paper clip		
 coin		
 plastic straw		

23. Identify and circle the heat sources in the pictures.



24. Where is the heat energy going? Complete the sentences making use of the words in the box below. [4]

air

hands

coffee

cup



The heat moves from the coffee to the \_\_\_\_\_ The heat moves from the fire to the \_\_\_\_\_

25. Are single glazed or double-glazed windows better for conserving heat? Circle the correct picture. [2]

Single-glazed window



Double-glazed window



26. Write three ways how electricity can be conserved at home. [6]

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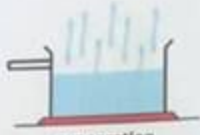

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27. Check (✓) if temperature is added or removed.

	Heat added	Heat removed
 <p>evaporation</p>		
 <p>condensation</p>		

28. Write two (2) reasons why the clothes would dry faster outside?




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[4]

Check (✓) if these changes of state are reversible or not reversible.

[6]

	Reversible	Not reversible
 freezing		
 evaporation		
 fried egg		