GRADE 7

HEAT AND ITS EFFECTS

A. Fill in the blanks:	
1.	The SI unit of temperature is
2.	Heat is a form of
3.	The temperature of steam is taken as the fixed point.
4.	The lower fixed point in the kelvin scale is
5.	When matter is heated it
6.	The rate of expansion is for different liquids.
В.	Short answer questions:
7.	What is temperature?
8.	What is the principle used in constructing a liquid thermometer?
9.	What is a digital thermometer?
10.	Why laboratory thermometers are not used to measure the body temperature?
11.	Draw a labelled diagram of a clinical thermometer? What is the function of the
	kink in the stem?
12.	One litre of water at 30°C is mixed with one litre of water at 50°C. The approximate
	temperature of the mixture will be a)80°C b)more than 50°C but less than 80°C
	c)20°C d) between 30°C and 50°C

C. Long answer questions:

- 13. Discuss the effects that heat has on matter?
- 14. Convert
 - a. 75° C into F
 - b. 37°F into °C
 - c. 50° C into K
- 15. Give two differences between a laboratory thermometer and a clinical thermometer?
- 16. Explain three useful applications of expansion of solids?
- 17. Why are liquids, not solids or gases, normally used in thermometers?
- 18. Which is warmer 50° F or 10° C?