**Motor Vehicle**

**Research Task**

NAME:

Date:

Score:

1). If a tyre has a sidewall marking of 225/45 ZR17 91W, what does the ‘91’ indicate?

A. Width of the Tread in mm

B. Height of the sidewall

C. Speed Rating

D. Load Index

[](http://www.google.co.uk/imgres?imgurl=http://www.aa1car.com/blog/thermostat_hyundai.jpg&imgrefurl=http://www.aa1car.com/blog/avoiding_auto_repair_ripoffs.htm&h=306&w=340&tbnid=E6MnmjP9KZQvUM:&zoom=1&q=car%20thermostat&docid=ORNBiQzovynKWM&ei=yZ2RU6XZGsv40gWUo4DQDQ&tbm=isch&ved=0CC8QMygDMAM&iact=rc&uact=3&dur=393&page=1&start=0&ndsp=27)2). Identify the component shown in this image:

A. Oil pressure switch

B. Radiator core

C. Coolant sensor

D. Thermostat

3). Identify the component shown in this image:

A. Crankshaft

B. Radiator

C. Cylinder Head

D. Thermostat

4) It is recommended that brake fluid be changed periodically because it

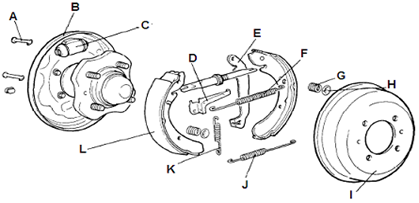
A Absorbs moisture

B Loses its viscosity

C Causes seals to swell

D Becomes too thick

5). What item is indicated by the letter L in the diagram shown here?



A Brake disc

B Brake drum

C Brake pad

D Brake shoe

5). In the space below, name and describe the four strokes of a Spark Ignition and a Compression Ignition engine. Draw a sketch for each stroke, show the piston direction and valve position, and describe what is happening in each stroke. Also, describe the differences between the four-stroke cycle of the Spark Ignition engine and that of the Compression Ignition engine.