**QUIZ # 1**

**Section 32691**

**Aggregates**

Take **15 minutes** to answer the following questions

**Q1** Briefly explain why the following aggregate properties are important to asphalt concrete used in pavements.

* 1. surface texture of stones [5 marks]
  2. Impact strength of stones [5 marks]
  3. Shape of stones [5 marks]

**Q2** Answer True or False and provide a comment. [3 marks each]

[***NOTE:*** answers without the comment will not be considered]

2-1 A relatively high stone porosity is expected to negatively affect the asphalt concrete.

2-2 Strength of asphalt concrete is influenced by the grading (particle distribution) of aggregates.

2-3 Use of dusty stones improves the strength of asphalt concrete.

**Q3** Provide an approximation for the following quantities [3 marks each]

* 1. The specific gravity (G) of most stones used in asphalt concrete is between ……….. and ………..
  2. Aggregates occupy ………… to …………. of the volume of asphalt concrete.