# OLABISI ONABANJO UNIVERSITY, AGO-IWOYE
## FACULTY OF THE SOCIAL SCIENCES
### DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING
### B.SC DEGREE IN TRANSPORT PLANNING AND MANAGEMENT
### 2006/2007 RAIN SEMESTER EXAMINATION
### GRP 202 – INTRODUCTORY CARTOGRAPHY

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER 2 QUESTIONS**

**TIME ALLOWED: 2 HOURS**

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1a. What is Map Projection? Itemize both the characteristics and properties of the global network of <u>meridians</u> and <u>parallels</u>.

b. Explain the following under these broad headings; <u>construction</u>, <u>properties</u>, <u>uses</u> and limitation.

[i] perspective conial projection

[ii] Bonne's projection

[iii] Perspective cylindrical projection

[iv] Mercator's projection

[c] State the formulae that maybe use in the mathematical construction of Equal – Area or Lambert's Cylindrical projection

2a. What is lettering in Cartography?

b. Identify and discuss the various decisions to be taken when carrying out lettering in cartographic work.

[c] Explain fully the three [3] mechanics of lettering.

3a. What is scale? How will you determine the scale of a map, if it is not given?

b. Explain the various ways of notating scale on a map.

c[i] If the original scale of a map is 1:100,000 and is to be enlarged 10 times. What is the new scale of the enlarged version of it?

[ii] If the original scale of a map I s1:10,000 and is to e reduced 5 times. What is the new scale of the reduced version of it?

4. Justify any 8 cartographic instruments that you would recommended for an ideal cartographic laboratory.

5. Compare and contrast perspective conical and Mercator's projections.