Answer all the following Questions [100 Marks]

Marks

Question (1) [25]

(a) Define the map and what is Cartography science ?

(b) What is the difference between computer mapping and Geographic Information Systems?

Question (2) [25]

(a) State the historical development of Maps ?

(b) Classify the maps according to : scales – types - ?

(c) The basics of any map consist of five components, explain them ?

(d) Define briefly: Surveying marks – Linear marks – Engineering marks

Question (3) [25]

A boat traveling from place B which its latitude 46° 30' S and its longitude 02° 38' E to place C which its latitude 39° 42' S and its longitude 16° 48' W. Find the distance between the two places "using two different methods" (R = 6376 km) ?

Question (4) [25]

(a) What are the uses of photogrammetry photos ?

(b) Explain the main steps of digital photogrammetry ?

Best Wishes: Dr/ Mohamed Ismail .... مع أطيب التمنيات بالتوفيق