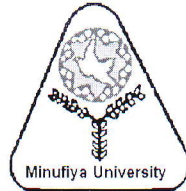


Menoufiya University
Faculty of Engineering
Shebin El-Kom
Academic Year: 2014-2015



Department: Civil
Subject/Code: GPS, 547
Time Allowed: 3 hours
Date: 2 / 6 / 2015

Answer all the following Questions [100 Marks]

Question (1) **(20 marks)**

- a) What is the Global Positioning System GPS and who control it ?
- b) State the different systems beside GPS in the world ?
- c) State briefly the components of GPS ?

Question (2) **(20 marks)**

Give short note about each of the following satellite positioning systems:

- a) The Global Navigation Satellite System (GLONASS)
- b) GALILEO

Question (3) **(20 marks)**

- a) Discuss the Development Stages of GPS?
- b) Discuss the TRANSIT system and your opinion about it?

Question (4) **(20 marks)**

- 1) Mention the ways and methods of observing using GPS?
- 2) Mention the main cases for position determination using GPS?

Question (5) **(20 marks)**

- a) Discuss the main uses of GPS ?
- b) Explain the basic principles that GPS works on it?

With my best wishes Assoc. Prof. Dr. / Mohamed Ismail Ali Doma