Menoufiya University Faculty of Engineering

Shebin El-Kom Final Term Exam

Academic Year: 2014-2015

Date: 26/5/2015



Year: Third

Department: Mechanical Power Eng. Subject: Air Pollution from Combustion

Code: MPE314C

Max. Grade: 70 marks Time Allowed: 3 hours

This exam measures ILOS no.: (A6, A11, A18), (B5, B9, B10), (C15), (D1, D2)

First Part

Answer	the	following	g questions:
T MARK III WA			

Answer the following questions.

Question (1)

(15 marks)

- 1.1 Define the following terms:
 - a) Air pollution
- b) Dust
- c) Mist
- 1.2 Explain in details the global warming phenomenon? What are the main gases that participating in this phenomenon
- 1.3 Specify the types of air pollution.
- 1.4 Explain with sketch the characteristics and the position of ozone layer? What are the harmful effects due to the depletion in ozone layer?
- 1.5 Distinguish between primary and secondary pollutants.

Question (2)

(20 marks)

- 2.1 Define the following terms:
 - a) Smoke
- b) Smog
- c) Crankcase blowby
- 2.2 What are the main sources of pollutants from petrol engine?
- 2.3 List three -pollutant emissions from spark ignition engine (S.I.E).
- 2.4 What will be the consequence if a diesel fuel is used in the SI engine?
- 2.5 Report the factors affecting emission from spark ignition engine.

Second Part

