



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA

FIRST SEMESTER EXAMINATIONS, NOV/DEC 2017

COURSE NO: GM 377

COURSE NAME: FLEET MANAGEMENT

CLASS: GM III

TIME: 3 HOUR

Name: _____ Index Number: _____

Q1

- Briefly explain the objectives of fleet management. **(6 marks)**
- Selecting effective vehicles for a company/organization is a complex process that takes into consideration a number of factors such as: **(3 marks)**
- Many different vehicle makes, models and options are available. For ease of reference, in a typical country programme, vehicles may be grouped into four main categories, name them: **(5 marks)**

Q2

- State the selection guidelines for motor vehicles. **(5 marks)**
- What vehicle replacement plan will you consider in your organization? **(7 marks)**
- State five fleet management strategies you will adopt in your organization. **(8 marks)**

Q3

- What are the basis and assumptions in fleet workshop establishment? **(5 marks)**
- The three main critical factors that affect the decision to invest in the proposed fleet management workshop setup are: **(3 marks)**
- Explain Deterministic Optimization Model and Two-Stage Stochastic Programming Model in Optimization of fleet composition and size under uncertainty in Urban Transit Systems. **(12 marks)**

Q4

- Vehicle location tracking solution must accurately provide real time, online updated and accurate positioning. The minimum features are: **(10 marks)**
- Mention four application areas of Geomatics in fleet management? **(8 marks)**
- How can network analysis in GIS help in maximizing profit in fleet management? **(8 marks)**

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