OSUN STATE UNIVERSITY, OSOGBO
COLLEGE OF SCIENCE, ENGINEERING AND TECHNOLOGY
FACULTY OF ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

HARMATTAN SEMESTER EXAMINATION, 2018/2019 ACADEMIC SESSION

COURSE TITLE: INDUSTRIAL LAW AND MANAGEMENT COURSE CODE: CVE513 UNITS: 2

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS

DURATION: 2 HOURS

QUESTION ONE

A and B Co wishes to invest into production of a brand of electrical cable. Extensive market survey reveals that the profitability P of the investment depends on two constraints: the cost of raw materials (x) and transportation route (y). Determine the maximum profit that can be made given that the profit function and the constraints are as stated below.

$$P = 4x + 3y$$

$$-x + y \leq 4$$

$$X + 2y \leq 14$$

$$2x + y \leq 16 \quad (x, y \geq 0)$$ **($17^1/_2$ marks)**

QUESTION TWO

(a) What is ethics? **($1^1/_2$ mks)**

(b) State the objectives of ethics in any profession. **(4 mks)**

(c) Explain briefly the different ways by which a contract may be discharged. **(12 mks)**

QUESTION THREE

(a) Highlight the essential elements of a valid contract. **(4 mks)**

(b) State eight (8) conditions that can bring about the termination of an offer. **(8 marks)**

(c) Distinguish between invitation to treat and an offer. **(3 mks)**

(d) Explain the term counter offer **(2^1/2mks)**

QUESTION FOUR

a. Explain the concept of intellectual property rights. **(10 mks)**

b. What are the essential things that must be included in an application for a patent?

($7^1/_2$ mks)

QUESTION FIVE

(a) What is engineering project management? **(2 mks)**

(b) What is a feasibility study? **(3 mks)**

(c) Discuss the various components of a feasibility report. **($12^1/_2$ mks)**

QUESTION SIX

(a) State the objectives of occupational safety and health laws. **(4 mks)**

(b) Describe the institutional framework in existence in Nigeria for enforcing industrial safety laws and state at least eight (8) of its functions. **($8^1/_2$ mks)**

(c) Under what conditions would you describe a country as self sufficient technologically? **(5 mks)**