



OBAFEMI AWOLOWO UNIVERSITY ILE-IFE FACULTY OF ENVIRONMENTAL DESIGN AND MANAGEMENT DEPARTMENT OF ESTATE MANAGEMENT

BSc.(Estate Management), Harmattan Semester Examination, 2011/2012 Session

ESM 515-Plant and Machinery Vale atio 1. Time Allowed: 2 hours Instruction: Answer Question 1 and any other three questions.

(1.) Value the assets of Senator Grip whose factory premises comprise buildings, plant and machinery on a well landscaped site. The structure is three single storey workshops with a net usable area of 1000 square meter each and two single storey warehouses let for #30per square meter and #40 per square meter respectively.

The result of the market survey from relevan: plant manufacturers in New York shows the following:

Pumps and vessels	\$150,000
Instruments and Control	\$20,000
Mechanical/Electricals	\$20,000
Shipping	\$10,000
Installation	\$10,000
Civil work	\$6000
Professional fee	\$15,000
Finance charge	\$10,000

The subject plant was constructed in 1990 at a historical cost (dollars). The plant took two years to construct and inflation tends over the past two years accounts for 20% of current plant construction cost per annum. Take the exchange rate of #150.00 to dollar. Adopting reducing balance depreciating at 20%. Useful life is 60years out of a lifespan of 65 years.

Other machinery such as vehicles, generators, typewriters, computer, furnittire etc. have recently been valued at 0.5million naira by Boothman and associates. The minimum return required for this business is 9% while the expected profit from past trends suggests that a profit of 1million Naira per annum will continue.

Data from the books of account of the company for the Year ended, Dec., 1998 include;

Stock of raw materials	#75,000
Stock of finished goods	#80,000
Cash-in-hand	#15,000
Cash-at-bank	#50,000
Sundry Debtors	#5000









#80.000

(i.) Calculate the capital value of the fixe I tangible assets. 13 marks

(ii.) Determine the working capital 4 marks

(iii.) Value the goodwill using super profit method. 4marks

Note: Assume 7% capitalization rate

- (2.a) Plant and Machinery Valuation car, be undertaken for both transactional and non-transactional driven purposes. Discuss.

 8marks
- (b.) Demonstrate the scenario of "condition of average clause" in insurance valuation 5 marks
- (3a.) Explain the concept of value-in-us.; and ureak-up value in relation to plant and machinery Valuation.
- (b) Outline the conditions under which "going concern value" computation is generally appropriate.

 6 marks
- (4a) What are the factors which must be Cake, into account when depreciating an asset.4 marks
- (b.) Describe three methods of depreciation applicable in plant and machinery valuation.9marks
- (5a.) Insurance valuation is based on the docume of utmost good faith. Discuss. 4 marks
- (b.)Engineer Kako owns an old factory building with a gross floor area of 10000 square meters. The construction is combination of stone and brickwall and asbestor cement pitch roof. Information reveals an average unit cost of 2000 per square meter. Enginner Kako has been wisely advised to insure the structures on both indemnity and reinstatement bases. Assume 10% professional fee, 5% gross internal floor area of entire size. Calculate the indemnity and reinstatement values. 9 marks
- (6a). Discuss various types of intangible assets attached to plant and machinery valuation on going-concern basis and describe their methods of valuation.

 7 marks
- (b.) If the average profit (p) is #30,000, the minimum rate of return is 12%, value of the net asset is #200,000, 14% capitalization rate for the perpetual interest. Determine the goodwill, using Gross Profit rnethod and Total Capitalization method.

 6marks



