



Federal University of Technology Minna
School of Environmental Technology
Department of Quantity Surveying

Examination Questions

Academic Session: 2018/2019
Course: Construction Management II

Semester: 1st
Course Code: QTS 414 Credit Units: 2

Time Allowed: 1hour 30mins

Instructions: Answer Questions 1 and Any two other Questions

SECTION ONE

Question 1:

A. Urban Shelters Nig Ltd is a reputable burnt bricks manufacturing company. As at 31st Day of May, 2019 the inventory manager reported that there are 250,000 bricks ready for market in the warehouse and a total of 120,000 bricks under production. The production process for the bricks in stock consumed the following resources: 10,000 labour, 450,000 materials and 45,000 energy.

i. * Based on data given tabulate the information for ease of computation (2mrks)

Compute:

- ii. (a) total performance achieved; (b) resources consumed; (c) total productivity (3mrks)
- iii. productivity for total performance achieved and energy consumed only (2mrks)
- iv. productivity for finished goods and materials consumed only (2mrks)
- v. productivity measure of total output considering materials and energy only (2mrks)
- vi. productivity measure of total output considering labour and energy only (2mrks)
- vii. productivity measure of finished goods considering labour and materials only (2mrks)

B. Qs Abdulrasheed of Ayodele & Partners takes 3hours, 50minutes to prepare a valuation report for an on-going project. He was rated at 95% and the office has a personal time allowance of 15%. There is no delay time or fatigue time. calculate the Normal time and Standard time for preparing a valuation report. Present your answers in hours, and excess in minutes (5mrks)

Question 2:

- i. Give any Five (5) components of materials management (5marks)
- ii. Write short notes on the functions of material management (5marks)
- iii. What are the four basic objectives of purchasing? (4marks)
- iv. What are the functions of purchasing? (6marks)

Question 3:

- i. How would you define the terms '**Stock**' and '**Lot sizing**' in the context of inventory? (5marks)
- ii. Describe each of the four inventory types (12marks)
- iii. State any **Three (3)** functions of warehouse (3marks)

Question 4:

- i. Explain the generic definition of productivity (5marks)
- ii. What is Partial productivity? (3marks)
- iii. What is multifactor productivity? (3marks)
- iv. Improving productivity requires 2 deliberate activities, mention these activities (3marks)
- v. 'Production is not the same as productivity...' Explain briefly (3marks)
- vi. 'Performance is not the same as productivity...' Explain briefly (3marks)

Question 5:

- i. Define Work study (3marks)
- ii. State two main limitations of Work Study (2marks)
- iii. Mention **Four (4)** objectives of Method study (4marks)
- iv. Mention **Three (3)** objectives of Work Measurement (3marks)
- v. State **Three (3)** Problems on construction sites that could be resolved with method study (3marks)
- vi. Itemise the procedure for time study (5marks)