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**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2019/2020**

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN PUBLIC HEALTH**

**IPH 2213: QUANTITY SURVEYING**

**DATE: APRIL, 2020 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER ALL QUESTIONS IN **SECTION A** (COMPULSORY) AND ANY OTHER TWO QUESTIONS IN **SECTION B**

**SECTION A: 48 MARKS**

1. In ancient times, people were not interested in the final cost of construction of buildings. Briefly explain how this lack of interest in the final cost affected the development of quantity surveying as a profession. (6 marks)

2. Categories the different quantity surveyors used in the built environment. (6 marks)

3. Differentiate between the following terms:- (6 marks)

 i. Valuation

 ii. Variation

4. Explain three methods of tendering that will be used if a health facility is to be built in Kisii county by the county government of Kisii. (6 marks)

5. Explain the purpose of Bills of quantifies as used in the building industry. (6 marks)

6. a. Explain the following terminologies as used in the building industry.

 (4 marks)

 i. Defects liability period

 ii. Day work

b. Explain briefly the forms of specifications used as used in quantify surveying. (2 marks)

7. Explain briefly the certificates that are used by an architect during the construction contract to approve any payment to any contractors. (6 marks)

8. Describe briefly the elements of a contract of a building project. (6 marks)

**SECTION B: 22 MARKS**

9. a. Explain the functions of a client’s quantify surveyor. (10 marks)

 b. Describe the following stating their applications in construction projects.

 i. Approximate estimates. (5 marks)

 ii. Detailed estimates. (5 marks)

10. According to the building contract law, a contractor should be paid at least once in 30 days turning the construction period

 a. Describe the process of payment to the contractor for the work done. (10 marks)

b. Explain the type of certificates to be issued during the construction process from design stage to completion. (12 marks)

11. a. A public health officer is part of a building and consulting consortium.

 Describe the roles of a public health officer in the built environment.

(4 marks)

 b. Explain the purposes of occupational certificates. (8 marks)