



**DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR**

**FIRST YEAR SPECIAL/ SUPPLEMENTARY EXAMINATION FOR THE  
DEGREE OF BACHELOR OF TECHNOLOGY IN BUILDING CONSTRUCTION**

**UNIT CODE: TBD 1102**

**UNIT TITLE: INTRODUCTION TO BUILDING TECHNOLOGY**

**DATE: 4/4/2022**

**TIME: 11.00AM-1.00PM**

**INSTRUCTIONS**

1. Question one is compulsory
2. Answer questions one and any other two.

**QUESTION ONE - [30 MARKS]**

- (a) Define and briefly explain the following terms as applied in building.
- |                           |      |
|---------------------------|------|
| i. Building technology    | 3mks |
| ii. Building construction | 3mks |
- (b) Outline a brief history of the construction industry 6mks
- (c) Renaissance was a transition period from darkness to light. Stating when this period occurred, discuss this transition. 8mks
- (d) The end of the renaissance period ushered in the age of enlightenment. Discuss the, 'enlightenment age' 10mks

**QUESTION TWO- [20MARKS]**

- (a) During the medieval times, Christianity played a key role. What was this role? 3mks
- (b) What are the distinct features between construction during the primitive times and the industrial revolution. 5mks

(c) Britain played a key role of the industrial revolution birth place. State the three factors that contributed to this. 3mks

(d) When dealing with 'prehistory', all dates are relative rather than absolute. Discuss. 10mks

### **QUESTION THREE - [20MARKS]**

(a) The iron age is referred to as the final epoch of the 'three age system' briefly explain the three age system. 6mks

(b) State when the Iron Age occurred and further give an outline of its key features. 6mks

(c) The medieval age/era was principally divided into two i.e. Romanesque and Pre-Romanesque. Clearly distinguish between the two. 6mks

(d) State reasons as to why copper period is not regarded as one of the principal periods in the three age system. 2 mks

### **QUESTION FOUR - [20MARKS]**

(a) Define the term, 'renaissance', State at least two renowned intellectuals of this period. 3mks

(b) Briefly explain why the history of construction relies heavily on other branches of science such as archeology, history and architecture to investigate how the builders lived and recorded their accomplishments. 4mks

(c) Copper is believed to be the first metal to be worked on by men, briefly explain how this was possible. 3mks

(d) The second industrial revolution is referred to as the technological revolution, explain when it took place, its key features and also state the reasons which enabled America to achieve a significant advancement during this period. 10mks

### **QUESTION FIVE - [20MARKS]**

(a) The middle age/medieval age is also referred to as the, 'dark ages' give reasons as to why it was referred to as the dark ages. 3mks

(b) In your own language, briefly explain what time/circumstances that led the early man to decide to abandon the nomadic way of life and start building shelter. 5mks

(c) Explain the meaning of the term, 'Prehistory' and further give an account of how man lived during this period. 6mks

(d) The copper age lasted roughly 1000 years, state at what times it occurred and also give an account of the key features of this era. 6mks