

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY**

# **UNIVERSITY EXAMINATIONS 2014/2015**

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

**IPH 2314 : BUILDING CONSTRUCTION TECHNOLOGY**

**DATE: DECEMBER 2014 TIME: 2 HOURS**

**INSTRUCTIONS:**

**ANSWER ALL QUESTIONS IN SECTION A AND ANY ONE IN SECTION B**

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**SECTION A**

**QUESTION ONE**

1. Stat e THREE parts considered in the construction of solid floors. [3 marks]
2. Define the term ‘Hoarding’ and give two forms of hoarding in common use. [3 marks]

**QUESTION TWO**

Briefly describe the following types of foundations

1. Strip foundation
2. Pad foundation
3. Raft foundation [6 marks]

**QUESTION THREE**

Explain the following major fittings used in metal scaffolding

1. Base plat
2. Putlog end
3. Double coupler
4. Reveal pin [6 marks]

**QUESTION FOUR**

1. A state any THREE disadvantages of block work over brick work [3 marks]
2. Define the following terms as used in walling
3. Jointing
4. Pointing

**QUESTION FIVE**

State six functions of a roof [6 marks]

**QUESTION SIX**

1. State THREE conditions that must be satisfied by Glass to be used in windows and doors. [3 marks]
2. Describe the following types of windows
3. Pivot windows
4. Double-Hung sash windows
5. Buy windows

**QUESTION SEVEN**

With the aid of diagram illustrate the following parts of a wooden stair case

1. Tread
2. String
3. Riser
4. Nosing [6 marks]

**QUESTION EIGHT**

With the aid of a diagram, illustrate the following form of arches.

1. Gothic
2. Elliptical or 3 centered
3. Ogee
4. Triangular [6 marks]

**SECTION B**

**QUESTION NINE**

To be successful in its functions, discuss the requirements formwork must fulfill. [22 marks]

**QUESTION TEN**

With the aid of well labeled diagrams illustrate the following

1. Timbering in Hard soils
2. Timbering in loose wet soils [22 marks]

**QUESTION ELEVEN**

Briefly explain the regulation for occupational safety and Health of the following

1. Safe places of work
2. Excavation
3. Training , inspection and reports. [22 marks]