## **INSTRUCTIONS**.

Answer **<u>question one</u>** and any other **<u>Two</u>** from the subsequent questions.

## DCE 062 Building Technology 1

## SECTION A

1.		(5marks)	
	and superstructure of a building from foundation to roof.	(10marks)	
	c) Define foundation as used in building construction.	(2marks)	
	<ul><li>d) With the aid of neat sketches write short notes on the following types of four</li><li>i) Raft foundation</li></ul>	ndations	
	ii) Strip foundation		
	iii) Pad foundation	(6marks)	
	e) List three essential requirements of a good foundation.	(3marks)	
	f) Where are pile foundations used and explain three (3) types of pile		
	foundations.	(4marks)	
<u>SECT</u>	<u>TION B</u>		
2.	(a) Differentiate between load bearing walls and non- load bearing walls as used in		
	building construction.	(4marks)	
	(b) State five (5) functions of internal walls.	(5marks)	
	(c) Distinguish between jointing and pointing as used on wall finishes.	(2marks)	
	(d) Define arches and state the way they are classified on openings.	(4marks)	
	(e) State five (5) functional requirements which a floor constructed must satisfy	1	
	in a building.	(5marks)	
3.	(a) What are the requisite requirements of a well-planned roof and list five (5)		
	Roofing materials used in building industry.	(5marks)	
	(b) With the aid of sketches explain these various types of roofs.		
	i) Double or purlin roof.		
	ii) Lean to roof.		
	iii) Couple close roof		
	iv) Triple membered or framed or trussed roof	(8marks)	
	(c) How do we classify roofs and what determines the slope of the roof.	(3marks)	
	(d) List eight (8) factors which are considered in the selection of roofing		
	materials.	(4marks)	
4.	(a) State five (5) Kenya building code requirements with respect to domestic w	state five (5) Kenya building code requirements with respect to domestic water	
	Supply.	(5marks)	

- (b) Draw and explain a complete installation of cold water mains and down service to a double storey domestic house. (8marks)
  (c) Define a water meter and list six (6) characteristics a water meter should possess (7marks)
  5. (a) what are cells and explain primary cells and secondary cells giving an example of each. (3marks)
  (b) Briefly explain the four (4) sources of electricity stating their advantages over the other.
  i) hydroelectric power
  - ii) solar energy
  - iii) nuclear energy
  - iv) wind power (8marks)
  - (c) Define the term storm water and state four management practices which must be adhered to in its management. (5marks)
  - (d) What do you understand by sewerage system and state three (3) types of sewerage System. (4marks)