NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY FACULTY OF THE BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE BACHELOR OF ARCHITECTURAL STUDIES (HONOURS) DEGREE 2012-13 ACADEMIC YEAR PART I - FIRST SEMESTER SUPPLEMENTARY EXAMINATIONS – AUGUST 2013 AAR 1103 – HISTORY OF ARCHITECTURE I

Instructions

Duration: 3 Hours

Answer all four questions. Illustrate your answers clearly and legibly with sketches where appropriate Number all your sheets.

QUESTION 1

a.	a. Describe the impact the use of stone as a building material had on prehistoric soc		
	and their architecture.	(5)	

- b. Name and describe the temple building type used by the Mesopotamians, (4)
- c. Explain six of the following terms used by the Ancient Egyptians
 - i. Sphinx.
 - ii. First Court
 - iii. Hypostyle Hall
 - iv. Sanctuary
 - v. Clerestory
 - vi. Mastabas
 - vii. Stepped Pyramid
 - viii. Great Pyramid
 - ix. Trabeated Structure (6)
- d. Discuss the differences between the Egyptian and Greek climate, religion and society and how they were manifest in the design of their respective temples. (10)

[25]

QUESTION 2

a. Which excavated Palace gave some credence to the legend of the mythical Minotaur's labyrinth. Explain how features of the building were used as explanations of the myth?

(4)

		of an Ionic Column and Entablature, illustrating and annotating	ng the			
	following.					
	i.	Fluting				
	ii.	Shaft				
	iii.	Capital				
	iv.	Volute				
	v.	Abacus				
	vi.	Triglyph				
	vii.	Architrave	(12)			
c.	Explain the ter	m Entasis and how this effect is used in Greek temples	(5)			
d.	 Name the material from which the Classical Greek temples are believed to be derived. Name to type of decoration whereby the original building material was expressed in the stone detailing (4) [25] 					
<u>)UES</u>	STION 3					
a.	Name the one	building that is considered the highpoint of the Classical Greel	c Period.			
	Who was its ar	chitect?	(3)			
b.	Explain, with s	ketches, four of the following terms and building types				
	i.	Peripteral				
	ii.	In Antis				
	iii.	Cella				
	iv.	Pilaster				
	v.	Caryatids	(8)			
c.		cribe with diagrams the two additional Classical Orders used b	y the			
	Romans.		(6)			
d.	Who first wrot	e the three conditions of Architecture were Firmness, Commo	dity and			
	•	ibe these three qualities.	(6)			
e.		uctural advantages of the Coffer Slab as developed by the Ror	nans versus	the Flat		
	Slab.		(2)	[25]		
<u>)UES</u>	STION 4					
a.	Roman archite	cts mastered Space; the Greeks mastered architectural form. E	xplain this			
u.						
u.	difference illus	trating with examples from both civilizations.	(8)			

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c. Name and draw three architectural forms used by the Romans derived from the arch.

(6)

- d. Describe with diagrams one of following building types.
 - i. Forum of Trajan
 - ii. Basilica of Constantine (5)

[25]