NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY - FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

PART II – SUPPLEMENTARY EXAMINATIONS – JULY 2005 AAR 2102 – BUILDING CONSTRUCTION I

Instr	ructions Time: 3 Hou	urs
Answer All Questions. All Question Carry Equal Marks.		
QUE	ESTION 1	
a)	Explain clearly the duties of the Architect and Quantity Surveyor in the stages of development.	(10)
b)	Explain the methods used in investigating sub-surface. Use sketch drawings will necessary.	nere (15)
QUESTION 2		
a)	A proposed rectangular double storey building is surrounded by existing building width. What type of foundation would you recommend for such a building and w Illustrate with the use of sketch drawings.	s on its hy? (15)
b)	What are the advantages of solid floor over a suspended floor?	(5)
c)	Which material is used to prevent moisture from penetrating into the building and how it is applied?	(5)
QUESTION 3		
Provide a section through the external wall of a residential building with a suspended floor section up to the lintel level and label all types of used materials as well as providing their dimensions. (25)		
QUESTION 4		
a)	Which types of lintel construction are used in Zimbabwe?	(5)
b)	Describe the principles to be observed in the construction of cavity walls.	(10)
c)	Briefly describe the methods of improving the bearing capacity of soils.	(10)