

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF BUILT ENVIRONMENT

DEPARTMENT OF ARCHITECTURE

BUILDING CONSTRUCTION IV

AAR 3208

Supplementary Examination Paper

July 2017

This examination paper consists of 2 pages

Time Allowed: 4 hours

Total Marks: 100

Special Requirements: A1 Drawing Boards & Stool. A1 Paper & Masking tape.

Examiner's Name: Munaku E.

INSTRUCTIONS

1. Answer all questions. Question 1 to be answered on A1 sheet(s) of paper provided.

2. Use of calculators is permissible

MARK ALLOCATION

QUESTION	MARKS
1.	50
2.	25
3.	25
TOTAL	100

QUESTION 1

Draw a structural plan of a typical nine story building with basement (R.Conc) measuring $24m \times 12m$. It has a centrally located aisle of 1,2m and columns on $6m \times 6m$ grid. The building is to have a parapet wall around the roof which is a flat slab. Draw the following details at an appropriate scale,

i.	Hollow block floor with a suspended recessed ceiling with acoustic tiles of you	ır specification. [15]
ii.	Acoustic partitions.	[10]
iii.	Concrete cladding panels	[10]
iv.	Flat roof with mastic asphalt waterproofing.	[15]
QUESTI	ON 2	
i. Defin	e pavement and outline the three main purposes it performs.	[5]
ii. Use a	well labelled sketch to illustrate the two types of pavements	[10]
iii. Use	sketches to explain the purpose of the following in pavement construction:	
	a. Longitudinal joints	
	b. Expansion joints	[5]
iv. Expl	ain the causes of pavement deterioration.	[5]
QUESTI	ON 3	
1.	Draw typical details of the following	
a.	Simple composite retaining wall (brick and concrete)	[6]
b.	Subsoil drain (French drain)	[7]
C.	Suspended aluminium linear ceiling	[6]
d.	Glass curtain wall	[6]