

PROGRAM

: NATIONAL DIPLOMA

BUILDING

SUBJECT

: QUANTITY SURVEYING 1

CODE

: FQSG11A

DATE

: SUMMER EXAMINATION 2015

10 NOVEMBER 2015

DURATION

: 4 HOURS (SESSION 2) 12:30

WEIGHT

: 40:60

TOTAL MARKS

: 100

ASSESSOR

: MR. BERNARD M. ARTHUR-AIDOO

MODERATOR

: MR. NAZEEM ANSRAY

NUMBER OF PAGES : 3 PAGES

INSTRUCTIONS

: ANSWER ALL THE QUESTIONS IN SEQUENCE OF THE MEASURING

LIST

REQUIREMENTS

: ONE ANSWER SHEET, STANDARD SYSTEM MEASUREMENT, ONE

SCIENTIFIC CALCULATOR,

SECTION A

Measure the foundation and floor construction, of the office building as shown on drawing number QSB 111 in accordance with the specification given below.

SPECIFICATION

Earthworks

- Use 1.5m clearance from the face of the wall as your QS note.
- The soil investigation reveals that the ground is ordinary earth but interspersed with soft rock approximately 10% and hard rock 5%.
- Backfilling to trenches from excavated material compacted to 98% modified AASHTO density.
- Topsoil to be stripped to an average thickness of 120mm and stockpile for later re-use in landscaping of garden.
- Excavation to surface trenches to commence from strip level.
- Surplus excavated material to be carted away to a dumpsite to be located by the contractor.
- Compact bottom of trench excavation
- Poison excavated trenches against termites and weeds using prescribe chemicals.

Concrete

• Concrete in footings to be unreinforced concrete class 20Mpa/19mm stone size.

Masonry Brickwork

- 270mm Cavity wall formed of two half brick skins with 50mm cavity between, built in NFX bricks in class II cement mortar in stretcher bond, skins tied together with and including galvanised wire butterfly ties.
- 110mm thick wall in stretcher bond with class II in cement mortar as internal wall.
- 3 courses of brickwork walling as beam filling and band

Foundation - Cavity wall foundation – 750 x 230mm

110mm wall foundation – 500 x 230mm

Floor Construction

- 1:4 in 50mm thick cement screed
- 100mm thick unreinforced concrete 20Mpa/19mm surface Bed,
- 50mm thick sand river bed supplied by a nominated agent
- Compacted inert earth filling material 150mm thick.

Waterproofing

- 250 Micron damp proof membrane laid on top of 50mm thick sand bedding on compacted earth filling.
- 375 Micron SANS approved damp proof course on walls.

SECTION B

1.1.	Explain the term risk of collapse in trench excavations?	(2 Marks)
1.2.	Identify at least FOUR skills required by a quantity surveyor when practicing.	(4 Marks)
1.3.	Illustrate on a dimension sheet how the following are applied in Quantity surveying I	oractice.
	i Squaring ii Timesing iii Grouping of dimension	(2 Marks) (2 Marks) (2 Marks)
1.4.	Demonstrate the following on a dimension paper. Excavate for surface trench not exceed depth. Using the following dimension length of trench 20.75, width of trench 0.5m at trench 1.0m.	_
1.5.	List TWO items to be mentioned in the description of trench excavation	(2 Marks)
1.6.	Explain the reasons why river sand bedding is measured in the floor construction	(2 Marks)
1.7.	State TWO functions of a bill of Quantities prepared by a Quantity surveyor	(2 Marks)

(20 Marks)



	UNIVERSITY			Student No						
ŧ	JOH	ANNESBUR	G I							
WATCHWOOD				. 890						
ACCORDANGES.										
DOMESTIC										
-										
ZAGEN CHARAC										
distantials										
DATA SERVICE SAN AND SERVICE S										
and the same										
a.	MANUFACTURE AND ADDRESS OF THE PARTY AND ADDRE									
ECCHANIA				Control of the contro						
	Sharing									
Managatasa				CONTRACTOR OF THE CONTRACTOR O						
THE PROPERTY	ALL CANADA			A. Carrier and Car						
DEPRENDE	NA COLOR			Della Antico						
MANAGEMENT	and the second s									
CHRONIC	Danasa			A CALLED TO THE						
artin time	du sa			CHILDREN						
A CONTRACTOR	TO PROPERTY.			Control of the Contro						
TANKS OF STREET				STREET, STREET						
BEARCADICS				A CONTRACTOR OF THE CONTRACTOR						
ALCOHOL:	The state of the s									
THEFT	THE REAL PROPERTY.			A CONTRACTOR OF THE CONTRACTOR						
STORMAN				COLUMN TO THE PROPERTY OF THE						
NA PROPERTY OF				STREET, CONTRACTOR OF THE STREET, CONTRACTOR						
- Indiana										
CHECK NO.										
DANSTAN										
CONTRACTOR SECTION	CONTRACTOR									
- AMERICAN CO.										
Propagation of	T. Communication			The state of the s						
CHARLE	Communica									
POTENTIAL	and									
Vermentan										
SANGAL/AGA										
HOMEOUR										
- Contraction										
				** 4 4 1						



1				Diffiction paper
UNIVERSITY OF JOHANNESBURG				Student No
1.	JOH	ANNESBUR	RG	
en entre en				
nico e tranye de la C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.				
ан байтан так				STATE OF THE PROPERTY OF THE P
e de la companya de l La companya de la comp				
Andrewskie des States auch des States de				



		III (EDEIT)		Student No	 ***********				
	JOHA	VIVERSITY OF ANNESBUR	-						
DESCRIPTION OF THE PERSON OF T					E-Care Control	1			
PATERIA					CANADA				
PERMITTE					SLICAL MANAGEMENT AND ADDRESS OF THE PARTY O				
THE PARTY OF THE P					SCHOOL STATE				
POSTORIO P					TOTAL DES		1		
PROPERTY		1			BC0001				
MERCHAN			-						
NOTES DE	1				ACCIONATION OF THE PROPERTY OF				
CHESTOR					ALIE CONTRACTOR				
NATURAL DESCRIPTION OF THE PERSON OF THE PER	1				THE STATE OF THE S				
MANAGO			1		Nagara da				
Marketine	1				Section 2				
MOREOTO	1				The second				
COLUMNATA COLUMN					opposite and the second				
TOTAL STREET					Car system				
2000			1		100				
Paradicate					ST TOTAL ST		ĺ		
Activities of the control of the con					ONE STORY				
TAXABLE CONTRACT							.		
Opening design					Delegation of the second				
Printerson of the Control of the Con					TOTAL STATE OF THE PROPERTY OF			•	
TANKE TANK					2000				
ALL DESCRIPTION OF THE PERSONS ASSESSED.	-				O PERSONAL PROPERTY OF THE PRO				
ALBERTAN STREET					Circulate .				
and the same of th					Sept. S. T.				
Therman									
SEPTEMBER OF STREET				2	Chicago				
STATE OF THE PARTY					NO.				
225					of ready				
STATE OF THE PARTY					The Carlo				
METATORIES					A TOTAL				
THE PARTY OF THE P					A CARACTER CONTROL OF THE CARA				
Parities Transference					and the second				
MINERALLE				l.	1				
atotes					Network				
THE REPORT OF					ACCUMANTAL STATE OF THE STATE O				
A ALTERDATION OF THE PARTY OF T					- Orderschill Statistical				
STANDARD S					ALL COLORS				
National Property of the Party									
Chicagoliana					COACTO			y.	
Contraction					COCCURATION				
PROMETE	26				A A A A STATE OF THE				
		STATE AND AND STATE STATE OF THE STATE OF TH			 				
DECEMBER OF THE PERSON NAMED IN COLUMN 1									
A COLUMN TO A COLU					ATTOCKE ATTOCK				
And designation of the last of					And of the control of				
Constitution of the Consti				,	March Committee				
					SECULIAR SECU				
Howard 17.77					EDIA CARD			-	
A STANDARD					ALCOHOL:				
STRANS					School of the Communication of				
AND COMM					The second secon				
		1	1	1	The state of the s	1	1	1	



1				Diffiction paper					
	-		,						
	UN	UVERSITY		Student No		*********			
1.	JOHA	NNESBUR	G,	ı					
PATRICTURES.									
-									
CHECKING.							1		
CHARLES			1						
PARTITION OF THE PARTIT			İ					1	
STREET, STREET	-				A Color				
STATE OF THE PARTY									
COLUMNICATION					See and the see an		1		
ALC: PROPERTY OF THE PARTY OF T									
SECTION OF					en.socio				
The second second					2014		1		
Photograph of the control of the con									
THE PROPERTY.	1								
Victorian Victorian									
dachidaean dachidaean							1		
KWEEEN						BEADER OF THE PERSON OF THE PE			
Contraction of the Contraction o						perchape			15
O.Fachagas									
POT TOTAL						argoci le sa			
CENTRALETON CONTRACTOR						TO A STATE OF THE PARTY OF THE			
THE STATE OF THE S						TO THE PARTY OF TH			
CHERCHER									
STORES OF STREET									
PERSONAL PROPERTY.									
PATER PATER PA						and the same of th			
PERSONAL PER					1 1	9000			
TOTAL STREET						and the state of t			
Tresponsi					į e				the P
THE PERSON NAMED IN COLUMN NAM									
COMMON DA						The second secon			
President									
March Control							23		
PETTON.									
TOTAL DESCRIPTION OF THE PERSON OF THE PERSO	V								
NAME OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERS			P .						
reposende									
MARKA MARKA									
COMPANIES OF THE PARTY OF THE P									
		~~~~~~							 
TAXABLE DESIGNATION OF THE PERSON OF THE PER			,		٠,	PATELINE.			
						A STATE OF THE STA			
						and the second			
						-			
						MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGINETAN MACAGI			
				2		Parametri I			
						NAME AND ADDRESS OF THE PARTY O	,		
TOPPORT						PANEOUCHID			
						Parameter (		1	



Student No

	UI	NIVERSITY OF ANNESBU								
l.	HOL	ANNESBU	RG 1		E	1 8	1	1		
and de				•						
-										
Citrati										
100							1			
A.										
- Angelon						ST.				
STATE OF THE PARTY										
Mark San										
							1			
in the same										
aria maria								1		
Casha										
The state of the s						1				
STATE OF THE PERSON NAMED IN						M.C. MARINE				
TOTAL CO.										
STATE										
TA CHILD								. ]		
OCLASO						CHECK				
DAMPIG.										
No.										
Chart										
CHICAGO										
OHOTA:						No.				
Charles						CALL DE CALL D			•	
ARTINIE				e ²						
2000										
CHANGE				Ŧ				1		
OB-ALE.								-		
WANTED AND THE PERSON NAMED IN COLUMN TO A								1		
Military						STATE OF THE PARTY				
N. A. STORY										
The same										
MACHINE.										
TO STATE OF THE PERSON NAMED IN COLUMN 1				`						
ALC: NO								1		
Managa								1		
DANIE										
- Carre										
POCTATAL										
Ellinos de										
THE PERSON NAMED IN						DESCRIPTION OF THE PROPERTY OF				
DETRINO						NO. TOTAL PORT				
AT ALL ALL ALL ALL ALL ALL ALL ALL ALL A						DANCES OF THE PROPERTY OF THE		1		
CONCERNA				S		SALES DATE OF THE SALES DATE O				
and the same						endour se				
Cityes										
T Committee										
Bernoon										
Augustinia.										
					Afficia from a ser sen, strates et secces ambers com many attac pass annum substitute substitute as annum	11				
No. of Concession, Name of Street, or other Persons and Street, or other P					٠,					
ALC: NAME OF										
ALC: N										
-						II				
NAME OF TAXABLE PARTY.										
HORESTON						The same of the sa				
NAMES OF TAXABLE PARTY.						A CONTRACTOR OF THE PERSON AND THE P				
mis.heedish						Tarabatan .		3		
200						National Property and Property				
E	•	ı	ı	1		E	1 1		9	



Student No.... UNIVERSITY JOHANNESBURG



Student No.....

	1011	ANNESBUR	_					
Design to the last of the last	I I	ANNESBUR 						
ALC: No. of Con-						Displayer Street		
COLUMN TO A						Service Control of the Control of th		
C Columbia			1			A STATE OF THE STA		
in the same of						Control of the contro		
NAME AND ADDRESS OF THE PERSON						Date of the last o		
A.C.						Control of the Contro		
- Acastra						STATE		
the state of						ACCESSED.		
and and a						ALCO DE LA COLOR D		
циалован						TO STATE OF THE PARTY OF THE PA		
Sycaster						P. P		
and the same of								
SHARE						BICHES BELLEVILLE		
Harmon								
EMODE						Capacita		
THE REAL PROPERTY.						Continue		
Statute						The state of the s		
PRESENT						The state of the s		
- Colorado								
SOUTH						A STATE OF THE STA		
CHARLE						NAME OF THE OWNER		
SCHILLE						- Control		
and the same						Common of the co		
T. Million						CELANDARY SERVICES		
ALAST MA						ACTION A		
SPREED'S						alexandra de la companya de la compa		
THE CASE OF						Section 1		
HEDROGEN						The state of the s		
Chrysta		,	9.9	4		CZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		
STATE STATE						TO THE PERSON NAMED IN COLUMN		
Deliver								
CONTRACTOR OF THE PERSON NAMED IN				1		a de la companya de l		
ACMERICAL PROPERTY.						RCD084		
BECARGE								
CHORES						AND ADDRESS OF THE PARTY OF THE		
PERSONAL PROPERTY.						COTONIC OF		
Chemistrato	4.					- ALLEGARA		
POTFEREN						Control of the Contro	ŀ	
DEMOSAS.								
- Contraction		-				OCT-THE		2
-					ra e a da destruir e colore de Lucios erroles arron esque que a de que que que que que que en constitue de pre			
						ACTIVITY OF THE PERSON NAMED IN COLUMN NAMED I		,
				,				
, and the same of								
Automate				*		and the latest and th	1	
No. of Concession, Name of Street, or other Persons, Name of Street, Name of S								
Quickless.						Millering		
MANAGETATE	D. Control					A TOTAL OF THE PARTY OF THE PAR		
MATERIAL						A CONTRACTOR OF THE CONTRACTOR		
MEADWAND						ACIDATION CANADA		
Ē	ı	1	1	1	(f)	E E	1	1



	•			Student No	
	1U	NIVERSITY ANNESBUR	_	otagent No	
	HOL I	ANNESBUR 	G	<b>II</b>	
CObstantes					
-					
CHIMIN					
-					
and decays					
MARKET					
egus suba					
A CONTRACTOR					
MALE PARTY				· MADE AND A STATE OF THE STATE	
The second second					
and desired				AAAAA	
ALTERNATION CO.					
Absorber					
TOTAL					
Control					
DESCRIPTION					
THE PERSON NAMED IN					
CTAT THE				HE MAN AND AND AND AND AND AND AND AND AND A	
-					
ALCOHOLD .					
Technology.					
WENCHIN					
THE PERSON					
SCHOOL SECTION					
CHICAGO					
Same.					
PRESENT					
Tanker.					
Contraction of the last			-		
-					
phylande					
WCDC70					
PTHEFESTER					
and the second					
managan	on the state of th				
SE-MICE STREET			100		
ARRONAL MARK					
ACTIVIDATE					
-					
MANAGAM		8.			
San Spanish					
OL SPECIAL STREET					
NACTOR PARTY	-				
obstationaca.					
Table 1					
Lincolnica					
abwenion					
-			-	- i i i	

