PWO – Construction Technology

T020

Tuesday, 05/11/2013

1:30 - 4:30 PM

WORKFORCE DEVELOPMENT AUTHORITY



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ADVANCED LEVEL NATIONAL EXAMINATIONS, 2013; TECHNICAL AND PROFESSIONAL TRADES

EXAM TITLE: Construction Technology

OPTION: Public Works (PWO)

DURATION: 3hours

INSTRUCTIONS:

This paper contains three (3) Sections:Section I: Fifteen (15) questions, all compulsory.55marksSection II: Five (5) questions, choose any three (3).30marksSection III: Two (2) questions, choose any one (1).15marks

The use of calculator is admitted

Section I: All questions are Compulsory.

55marks

2marks

3marks

01. Clarify the aggregates according to their manufacturer.

02. Complete the table below:

	No	Name of tool	Use	
	1	Spirit level	?	
	2	Blaster	?	
	3	Wheelbarrows	?	
03. WI	hat ai	e the 4 methods of determining	the bearing capacity of soil?	4marks
04. An	iswer	the following questions by Yes	or No	
a)	a) The profiles are collective tools.			
b)	b) The plumb bob is individual tool.			
C)	c) The line cement mortar is composed of sand, cement, lime and water.			
d)	d) The building line is individual tool.			
05. Wi	ith re	levant examples, mention differe	ent categories of construction mate	rials.
		•		6marks
06. WI	• What are the 3 qualities of a good concrete?			
	Give the 4 different methods to apply for setting of right angle of building.			
00 • •				
08. L19	st any	7 8 structures in which stones h	ave been used in building construc	
00			10	4marks 1mark
	• What are the two (2) various classes of stonework?			
10. W	What are the 4 different ways in which stones may be classified?4n			
11. W	What are the characteristics of a good line?			
12. Lis	List any 5 various types of paint.			
13. a)	Wha	t is the water cement ratio applie	ed in the mixing of concrete?	1mark
b)	Wha	t are the three (3) varieties of lin	ne?	3marks
14. W	hat a	re the qualities from which the c	choice of stone as building material	
de	epend	s on?		4marks
15. W	hy do	you think paint is an essential	liquid to be applied on the surfaces	3
of	f timb	er and other materials?		3marks

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