



PROGRAM : NATIONAL DIPLOMA BUILDING

SUBJECT : **CONSTRUCTION MANAGEMENT 3**

CODE : **CONM 331**

DATE : SUMMER SSA EXAMINATION 2015
7 DECEMBER 2015

DURATION : (SESSION 3) 15:00 - 18:00

WEIGHT : 40 : 60

TOTAL MARKS : 100

ASSESSOR : DR JN AGUMBA

MODERATOR : PROF S. LARYEA 161Z

NUMBER OF PAGES : 1 COVER PAGE;
2 PAGES;
AND 1 ANNEXURE

INSTRUCTIONS : ANSWER ALL THE QUESTIONS IN **SEQUENCE**.

REQUIREMENTS : ONE ANSWER SHEET
ONE SCIENTIFIC CALCULATOR

INSTRUCTIONS TO STUDENTSPLEASE ANSWER ALL THE QUESTIONS IN **SEQUENCE**.**QUESTION 1**

- 1.1 **DEFINE** the term policy (2)
- 1.2 **DESCRIBE** the stages of planning that will enable a project to be successfully completed by a small and medium construction enterprise (9)
- [11]**

QUESTION 2

- 2.1 **DISCUSS** five advantages and two disadvantages of using a bar chart (7)
- 2.2 **PREPARE** a thoroughly analyzed network diagram for the completion of the following project activities using the activity on the node method and find the critical path. The contractor is not working over weekends and public holidays. The starting date of the project is on the **28/02/2015** (10)

ACTIVITY	PRECEEDING ACTIVITY	DURATION	COST PER ACTIVITY
A	-	6	50 000.00
B	A	8	7 000.00
C	A	7	20 000.00
D	C	3	15 000.00
E	A,B,C	5	25 000.00
F	D	7	10 000.00
G	F	6	15000.00
H	D	5	8 000.00

[17]**QUESTION 3**

- 3.1 **DEFINE** the terms; **quality** (2)
- 3.2 In order to achieve quality in a project, quality management concepts should be considered. **DISCUSS what will constitute** the following quality management concepts
- 3.2.1 Quality policy
- 3.2.2 Quality assurance
- 3.2.3 Quality plan (12)

[14]**QUESTION 4**

- 4.1 A contractor employs you as a contractor quantity surveyor tasked with preparing estimates for various projects that the company is tendering for. **DISCUSS** four methods that you will use to estimate the project cost. (16)

[16]

QUESTION 5

- 5.1 **DISCUSS** in your own words the reasons for using the JBCC contract document in a construction project. Then outline **six** clauses that are found in the JBCC (8)
- 5.2 In order for a contract to be valid **DISCUSS** the essential elements that will constitute it for it to be valid (12)
- [20]**

QUESTION 6

- 6.1 **DISCUSS** the money a client holds back from the contractor during monthly payments and discuss why? And explain how it is paid back to the contractor. (4)
- 6.2 **DISCUSS** the reasons why contractors will borrow finances for their projects (6)
- [10]**

QUESTION 7

- 7.1 **DEFINE** the terms conciliation and arbitration (4)
- 7.2 **DISCUSS** the types of leave that will be accorded to a permanent employee (8)
- 7.3 **DISCUSS** the importance of the Basic condition of Employment Act (2)
- [14]**

Total = 100

ANNEXUREwww.sapi.org.za**2015**

JANUARY						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

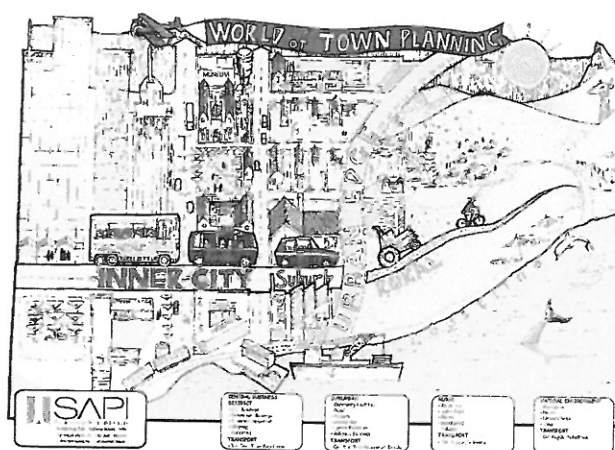
FEBRUARY						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MARCH						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

JUNE						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

**PUBLIC HOLIDAYS**

1 January 2015 – New Years Day
21 March 2015 - Human Rights Day *
3 April 2015 – Good Friday *
6 April 2015 – Family Day
27 April 2015 - Freedom Day
1 May 2015 - Workers Day

16 June 2015 - Youth Day
9 August 2015 - National Women's Day
10 August 2015 Public Holiday
24 September 2015 – Heritage Day
16 December 2015 - Day of Reconciliation
25 December 2015 - Christmas Day
26 December 2015 - Day Of Goodwill

SCHOOL TERMS 2015
 Eastern Cape

1. 21 Jan - 1 March
2. 13 April - 26 June
3. 20 July - 2 Oct
4. 12 Oct - 9 Dec

2016

JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31