

**FACULTY OF ENGINEERING AND BUILT
ENVIRONMENT****EXAMINATION****DEPARTMENT****DEPARTMENT OF QUALITY AND OPERATIONS
MANAGEMENT****PROGRAMME**ND MANAGEMENT SERVICES
ND OPERATIONS MANAGEMENT**MODULE**

ORGANISATIONAL EFFECTIVENESS 1B

CODE

ORE1B/OEF1B

DATE: SUMMER EXAMINATION 2015
14 NOVEMBER 2015**DURATION**

: (SESSION 2) 12:30 - 15:30

TOTAL MARKS

100

EXAMINER

MR V. LUKONGA

MODERATOR

MISS. T. NEMARUMANE

NUMBER OF PAGES

6 PAGES

INSTRUCTIONS TO CANDIDATES:

- Please answer all questions.
- Calculators are allowed
- Question papers must not be handed in.
- This is a closed book assessment.
- Read the questions carefully and answer only what is asked.
- Number your answers clearly.
- Write neatly and legibly.
- Structure your answers by using appropriate headings and sub-headings.
- The general University of Johannesburg policies, procedures and rules pertaining to written exam apply.

...Cont/

QUESTION 1

- 1.1 Define the following:
- 1.2 Task or Job (2)
- 1.3 Element (2)
- 1.4 Work Cycle (2)
- 1.5 Define the eight Types of Job Elements (16)

[22]**QUESTION 2**

C1: 1.55minutes, 0.25 minutes, 58 seconds, 565 centi-minutes, 86 seconds, 175 centi-minutes, 1.3 minutes, 365 centi-minutes

C2: 160 centi-minutes, 16 seconds, 0.85 minutes, 341 seconds, 145 centi-minutes, 110 seconds, 79 seconds, 220 seconds

C3: 97 seconds, 20 cent-minutes, 95 centi-minutes, 5.7 minutes, 1.4 minutes, 104 seconds, 77 seconds, 375 centi-minutes

C4: 1.6 minutes, 25 centi-minutes, 52 seconds, 570 centi-minutes, 82 seconds, 185 centi-minutes, 79 seconds, 224 seconds

- 2.1 Use the form provided above to Calculate the sample size for elements 4 & 5 (show calculations) (10)

FILL in the form provided below to answer question 2.2

- 2.2 Calculate rating for ALL the elements (32)

[42]

	FIRST NAME	S-NAME	STUDENT #	COURSE	SIGNATURE

[illegible]

QUESTION 3

Complete the time study sheets provided below.

(36)

Note:

The observed times provided are in seconds

Allowances have been provided in the sheets.

ALL answers must be in 2 decimal places

[36]

	FIRST NAME	S-NAME	STUDENT #	COURSE	SIGNATURE

OBSERVATION SHEET

DEPARTMENT;	Time Finished	TEBS	DATE (yy/mm/dd)
DIVISION;		+ TEAS	OPERATION NO;
MACHINE DESCRIPTION;	- Time Started	+Obs Time OF all elements	TAKEN BY;
WORKER; m / f			Elapsed time
	= Elapsed Time	= RT	Recorded Time
			Watch Error (ET-RT/ET *100)

Element Break Points;	TEBS;
	TEAS;

Elem no	Rating	Obs Time	Basic Time	Total Basic Time	Elem no	Rating	Obs Time	Basic Time	Total Basic Time	Elem no	Rating	Obs Time	Basic Time	Total Basic Time
1	99	678			1	100	675							
2	99	89			2	100	88							
3	115	13			3	107	14							
4					4	107	28							
5					5									
6					6									
7					7									
1	122	669			1	100	672							
2	98	90			2	102	86							
3	107	14			3	94	16							
4	103	29			4	100	30							
5	102	48			5	100	49							
6					6									
7					7									
1	100	671			1	100	670							
2	100	88			2	101	87							
3	100	15			3	88	17							
4	97	31			4	103	29							
5	96	51			5	98	50							
6					6	100	110							
7					7	100	63							

ANALYSIS SHEET

DEPARTMENT;	DATE (yy/mm/dd)
MACHINE no;	OPERATION NO;
MACHINE DESCRIPTION;	TAKEN BY;
TASK DESCRIPTION;	

		Elements											
		1	2	3	4	5	6	7	8	9	10	11	12
Cycle Number	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
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	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
Totals													
No of Obs													
Elem Basic Time													

SUMMARY SHEET

SUMMARY SHEET	
DEPARTMENT;	DATE (yy/mm/dd)
MACHINE DISCR;	OPERATION NO;
TASK DESCRIPTION;	TAKEN BY;
PART DESCRIPTION;	

[illegible]