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Purpose

This document is an appendix to Exam Structures & Rules document.

Revision History

Version	Date	Remarks
1.5	Oct 21, 2022	Added CT-GaMe v1.0.1
1.4	May 13, 2022	Added CTAL-ATLaS v1.0
1.3	January 14, 2022	Correction for CTFL where LOs 5.4.1, 5.5.2, and 5.5.3 were regrettable grouped in the K3 box, instead of being part of the K2 box above then (in the list)
1.2	August 4, 2021	Added CT-AI v1.0
1.1	May 21, 2021	Added CTAL-TTA v4.0
1.0	April 15, 2021	Collecting all previous S&R documents for individual syllabi into one document

Stream	Level	Acronym		Number of Questions	Number of Possible Points	Exactly 65% of the points	Passing Score (at least 65%)	Exam Length, in minutes	Exam Length + 25%
Core	Foundation	CTFL	Certified Tester Foundation Level v3.1	40	40	26,00	26	60	75
Core	Advanced	CTAL-TM	Certified Tester Advanced Level Test Manager v2.0 (2012)	65	115	74,75	75	180	225
Core	Advanced	CTAL-TA	Certified Tester Advanced Level Test Analyst v3.0 (2019)	40	80	52,00	52	120	150
			Certified Tester Advanced Level Test Analyst v3.1	40	80	52,00	52	120	150
Core	Advanced	CTAL-TTA	Certified Tester Advanced Level Technical Test Analyst v3.0 (2019)	45	76	49,40	50	120	150
			Certified Tester Advanced Level Technical Test Analyst v4.0	45	78	50,70	51	120	150
Agile	Foundation	CTFL-AT	Certified Tester Foundation Level Agile Tester	40	40	26,00	26	60	75
Agile	Advanced	CTAL-ATLaS	Certified Tester Advanced Level Agile Test Leadership at Scale v1.0	15	25	16,25	17	45	56
Agile	Advanced	CTAL-ATT	Certified Tester Advanced Level Agile Technical Tester	40	64	41,60	42	90	113
Specialist	NA	CT-MBT	Certified Tester Model-Based Tester	40	40	26,00	26	60	75
Specialist		CT-AuT	Certified Tester Automotive Software Tester	40	40	26,00	26	60	75
Specialist		CT-UT	Certified Tester Usability Testing	40	40	26,00	26	60	75
Specialist		CT-AcT	Certified Tester Acceptance Testing	40	40	26,00	26	60	75
Specialist		CT-GT	Certified Tester Gambling Industry Tester	40	40	26,00	26	60	75
Specialist		CT-MAT	Certified Tester Mobile Application Testing	40	40	26,00	26	60	75
Specialist		CT-PT	Certified Tester Performance Testing	40	40	26,00	26	90	113
Specialist		CT-TAE	Certified Tester Test Automation Engineer	40	75	48,75	49	90	113
Specialist		CT-SEC	Certified Tester Security Tester	45	80	52,00	52	120	150
Specialist		CT-AI	Certified Tester AI Testing	40	47	30,55	31	60	75
Specialist		CT-GaMe	Certified Tester Game Testing	40	40	26,00	26	60	75

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	8	1	8
K2	24	1	24
K3	8	3	24
K4	0	4	0
TOTALS	40		56

* [for asterix below]

If there are more questions to distribute between LOs in a group of LOs then at least ONE question MUST BE BASED ON each LO

If there are less questions to distribute between LOs in a group of LOs then each question MUST COVER a different LO

Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
Keywords	K1	1	1	There is a total of 8 questions required for Chapter 1. K1 = 2 K2 = 6 K3 = 0 Number of points for this chapter = 8
FL-1.1.1	K1	1	1	
FL-1.5.1				
FL-1.1.2				
FL-1.2.1				
FL-1.2.2				
FL-1.2.3				
FL-1.2.4				
FL-1.3.1	K2	6	1	
FL-1.4.1				
FL-1.4.2				
FL-1.4.3				
FL-1.4.4				
FL-1.5.2				
Chapter 2				
FL-2.1.2	K1	1	1	There is a total of 5 questions required for Chapter 2. K1 = 1 K2 = 4 K3 = 0 Number of points for this chapter = 5
FL-2.3.2				
FL-2.1.1				
FL-2.2.1				
FL-2.3.1	K2	4	1	
FL-2.3.3				
FL-2.4.1				
FL-2.4.2				
Chapter 3				
FL-3.1.1	K1	1	1	There is a total of 5 questions required for Chapter 3. K1 = 1 K2 = 3 K3 = 1 Number of points for this chapter = 5
FL-3.2.2				
FL-3.1.2				
FL-3.1.3				
FL-3.2.1	K2	3	1	
FL-3.2.3				
FL-3.2.5				
FL-3.2.4	K3	1	1	
Chapter 4				
Keywords	K1	1	1	There is a total of 11 questions required for Chapter 4. K1 = 1 K2 = 5 K3 = 5 Number of points for this chapter = 11
FL-4.1.1				
FL-4.3.1				
FL-4.3.2				
FL-4.3.3	K2	4	1	
FL-4.4.1				
FL-4.4.2				
FL-4.4.3				
FL-4.2.1	K3	3	1	
FL-4.2.2				
FL-4.2.3	K3	1	1	
FL-4.2.4	K3	1	1	
FL-4.2.5	K2	1	1	
Chapter 5				
FL-5.1.2				There is a total of 9 questions required for Chapter 5. K1 = 2 K2 = 5 K3 = 2 Number of points for this chapter = 9
FL-5.2.5	K1	2	1	
FL-5.3.1				
FL-5.5.1				
FL-5.1.1				
FL-5.2.1				
FL-5.2.2				
FL-5.2.3				
FL-5.2.6	K2	5	1	
FL-5.3.2				
FL-5.4.1				
FL-5.5.2				
FL-5.5.3				
FL-5.2.4	K3	2	1	
FL-5.6.1				
Chapter 6				
FL-6.1.2				There is a total of 2 questions required for Chapter 6. K1 = 1 K2 = 1 K3 = 0 Number of points for this chapter = 2
FL-6.1.3				
FL-6.2.1	K1	1	1	
FL-6.2.2				
FL-6.2.3				
FL-6.1.1	K2	1	1	
TOTALT 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	10	1	10
K2	22	1	22
K3	8	3	24
K4	0	4	0
TOTALS	40		56

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question					
Chapter 1								
Keywords	K1	5	1	There is a total of 13 questions required for Chapter 1. K1 = 5 K2 = 7 K3 = 1 Number of points for this chapter = 13				
FA-1.1.1								
FA-1.2.1								
FA-1.2.5								
FA-1.1.2					K2	2	1	
FA-1.1.3					K2	2	1	
FA-1.2.2					K3	1	1	
FA-1.2.3					K2	2	1	
FA-1.2.4	K2	1	1					
Chapter 2								
Keywords	K1	1	1	There is a total of 12 questions required for Chapter 2. K1 = 1 K2 = 11 K3 = 0 Number of points for this chapter = 12				
FA-2.1.1	K2	1	1					
FA-2.1.2	K2	1	1					
FA-2.1.3	K2	2	1					
FA-2.2.1	K2	2	1					
FA-2.2.2	K2	2	1					
FA-2.3.1	K2	1	1					
FA-2.3.2	K2	2	1					
Chapter 3								
Keywords	K1	4	1	There is a total of 15 questions required for Chapter 3. K1 = 4 K2 = 4 K3 = 7 Number of points for this chapter = 15				
FA-3.1.1								
FA 3.1.2								
FA-3.4.1								
FA-3.1.3					K2	2	1	
FA 3.1.4					K3	1	1	
FA-3.2.1					K3	1	1	
FA-3.2.2					K3	1	1	
FA-3.3.1					K3	1	1	
FA-3.3.2					K2	2	1	
FA-3.3.3					K3	1	1	
FA-3.3.4					K3	1	1	
FA-3.3.5					K3	1	1	
TOTALT 60 minutes for 40 questions								

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	25	1	25
K3	6	3	18
K4	9	4	36
TOTALS	40		79

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
ATT-1.1.1-2	K2	3	1	There is a total of 6 questions required for Chapter 1. K2 = 3 K3 = 0 K4 = 4 Number of points for this chapter = 12
ATT-1.1.2-2				
ATT-1.1.1-1	K4	3	3	
ATT-1.1.2-1				
Chapter 2				
ATT-2.1.1-2	K2	3	1	There is a total of 20 questions required for Chapter 2. K2 = 11 K3 = 3 K4 = 6 Number of points for this chapter = 35
ATT-2.1.1-3				
ATT-2.1.2-2	K2	1	1	
ATT-2.2.2-2	K2	3	1	
ATT-2.2.1-2				
ATT-2.3.1	K2	1	1	
ATT-2.3.2-2	K2	3	1	
ATT-2.3.1-2				
ATT-2.1.1	K3	3	2	
ATT-2.1.2				
ATT-2.1.3	K4	2	3	
ATT-2.2.1	K4	3	3	
ATT-2.2.2				
ATT-2.3.2	K4	1	3	
Chapter 3				
ATT-3.1.2	K2	1	1	There is a total of 9 questions required for Chapter 3. K2 = 7 K3 = 2 K4 = 0 Number of points for this chapter = 11
ATT-3.1.3-1	K2	3	1	
ATT-3.1.3-2				
ATT-3.2.1	K2	3	1	
ATT-3.2.1-2				
ATT-3.1.1	K3	2	2	
Chapter 4				
ATT-4.1.2	K2	1	1	There is a total of 5 questions required for Chapter 4. K2 = 4 K3 = 1 K4 = 0 Number of points for this chapter = 6
ATT-4.2.1	K2	3	1	
ATT-4.2.1-2				
ATT-4.1.1	K3	1	2	
TOTAL 90 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	7	2	14
K3	6	3	18
K4	2	4	8
TOTALS	15		40

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
ATLaS-1.1.1	K2	3	1	There is a total of 3 questions required for Chapter 1. K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 3
ATLaS-1.2.1				
Chapter 2				
ATLaS-2.1.1	K2	1	1	There is a total of 5 questions required for Chapter 2. K2 = 1 K3 = 2 K4 = 2 Number of points for this chapter = 11
ATLaS-2.1.2	K3	2	2	
ATLaS-2.2.1	K4	2	3	
Chapter 3				
ATLaS-3.1.1	K3	2	2	There is a total of 7 questions required for Chapter 3. K2 = 3 K3 = 4 K4 = 0 Number of points for this chapter = 11
ATLaS-3.1.2	K2	1	1	
ATLaS-3.2.1	K2	2	1	
ATLaS-3.2.2	K3	2	2	
TOTALT 45 minutes for 15 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	32	1	32
K3	15	3	45
K4	16	4	64
TOTALS	63		141

additional option of 6 to 7 questions
additional option of 1 question

Question Distribution	K-Level	Number of Questions per LO (group)	Suggested Points per Question
Chapter 1			
TM-1.2.1	K4	2	
TM-1.3.1	K3	2	
TM-1.3.2	K2	1	
TM-1.4.1	K3	2	
TM-1.5.1	K3	2	
TM-1.6.1	K3	2	
TM-1.7.1	K2	1	
TM-1.8.1	K2	*	
TM-1.8.2	K3	1	
A minimum of ONE question MAY be written against the selectable LO marked with an asterisk. There is a total of 13 (14) questions required for Chapter 1. K2 = 2 (3) K3 = 9 K4 = 2			
Chapter 2			
TM-2.2.1	K4	2	
TM-2.2.2	K2	2	
TM-2.2.3	K2	1	
TM-2.3.1	K2	1	
TM-2.3.2	K2	1	
TM-2.3.3	K4	2	
TM-2.3.4	K2	2	
TM-2.3.5	K2	*	
TM-2.4.1	K4	1	
TM-2.4.2	K4	1	
TM-2.4.3	K2	2	
TM-2.4.4	K3	1	
TM-2.5.1	K3	1	
TM-2.5.2	K2	1	
TM-2.6.1	K2	1	
TM-2.6.2	K2	1	
TM-2.6.3	K4	2	
TM-2.7.1	K2	*	
TM-2.7.2	K3	1	
TM-2.8.1	K2	1	
TM-2.9.1	K2	*	
A minimum of ONE question MUST be written against the selectable LOs marked with an asterisk. There is a total of 25 questions required for Chapter 2. K2 = 14 K3 = 3 K4 = 8			
Chapter 3			
TM-3.2.1	K2	1	
TM-3.3.1	K4	2	
TM-3.3.2	K2	1	
TM-3.4.1	K3	1	
TM-3.5.1	K2	1	
There is a total of 6 questions required for Chapter 3. K2 = 3 K3 = 1 K4 = 2			
Chapter 4			
TM-4.2.1	K3	1	
TM-4.2.2	K2	1	
TM-4.3.1	K3	1	
TM-4.4.1	K2	1	
There is a total of 4 questions required for Chapter 4. K2 = 2 K3 = 2 K4 = 0			
Chapter 5			
TM-5.2.1	K2	1	
TM-5.3.1	K3	*	
TM-5.4.1	K2	*	
TM-5.5.1	K2	*	
TM-5.6.1	K2	*	
TM-5.7.1	K2	*	
A minimum of TWO question MUST be written against the selectable LOs marked with an asterisk. There is a total of 3 questions required for Chapter 5. K2 = 1 (3) K3 = 0 (1) K4 = 0			
Chapter 6			
TM-6.2.1	K2	1	
TM-6.2.2	K2	1	
TM-6.2.3	K4	1	
TM-6.3.1	K2	1	
TM-6.4.1	K2	*	
A minimum of ONE question MAY be written against the selectable LO marked with an asterisk. There is a total of 4 (5) questions required for Chapter 6. K2 = 3 (4) K3 = 0 K4 = 1			
Chapter 7			
TM-7.2.1	K4	2	
TM-7.2.2	K4	1	
TM-7.3.1	K2	1	
TM-7.4.1	K2	*	
TM-7.5.1	K2	2	
TM-7.6.1	K2	*	
A minimum of ONE question MUST be written against the selectable LOs marked with an asterisk. There is a total of 7 questions required for Chapter 7. K2 = 4 K3 = 0 K4 = 3			
TOTALT 180 minutes for 65 questions			

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	17	1	17
K3	6	3	18
K4	17	4	68
TOTALS	40		103

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
TA-1.2.1	K2	1	1	There is a total of 6 questions required for Chapter 1. K2 = 4 K3 = 0 K4 = 2 Number of points for this chapter = 10
TA-1.3.1	K2	1	1	
TA-1.4.1	K2	1	1	
TA-1.4.2	K4	2	3	
TA-1.4.3	K2	1	1	
TA-1.5.1				
TA-1.6.1				
Chapter 2				
TA-2.1.1	K3	1	2	There is a total of 1 questions required for Chapter 2. K2 = 0 K3 = 1 K4 = 0 Number of points for this chapter = 2
Chapter 3				
TA-3.2.1	K4	1	3	There is a total of 17 questions required for Chapter 3. K2 = 3 K3 = 1 K4 = 13 Number of points for this chapter = 44
TA-3.2.2	K4	1	3	
TA-3.2.3	K4	2	3	
TA-3.2.4	K4	2	3	
TA-3.2.5	K2	1	1	
TA-3.2.6	K4	2	3	
TA-3.2.7	K4	2	3	
TA-3.2.8	K4	2	3	
TA-3.3.1	K2	1	1	
TA-3.3.2	K3	1	2	
TA-3.3.3	K2	1	1	
TA-3.4.1	K4	1	3	
Chapter 4				
TA-4.2.1	K2	3	1	There is a total of 11 questions required for Chapter 4. K2 = 9 K3 = 0 K4 = 2 Number of points for this chapter = 15
TA-4.2.2	K2			
TA-4.2.3	K2	3	1	
TA-4.2.4	K2			
TA-4.2.5	K2	3	1	
TA-4.2.6	K2			
TA-4.2.7	K4	2	3	
Chapter 5				
TA-5.2.1	K3	3	2	There is a total of 3 questions required for Chapter 5. K2 = 0 K3 = 3 K4 = 0 Number of points for this chapter = 6
TA-5.2.2	K3			
Chapter 6				
TA-6.2.1	K3	1	2	There is a total of 2 questions required for Chapter 6. K2 = 1 K3 = 1 K4 = 0 Number of points for this chapter = 3
TA-6.3.1	K2	1	1	
TOTALT 120 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	17	1	17
K3	6	3	18
K4	17	4	68
TOTALS	40		103

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
TA-1.2.1	K2	1	1	There is a total of 6 questions required for Chapter 1. K2 = 4 K3 = 0 K4 = 2 Number of points for this chapter = 10
TA-1.3.1	K2	1	1	
TA-1.4.1	K2	1	1	
TA-1.4.2	K4	2	3	
TA-1.4.3	K2	1	1	
TA-1.5.1				
TA-1.6.1				
Chapter 2				
TA-2.1.1	K3	1	2	There is a total of 1 questions required for Chapter 2. K2 = 0 K3 = 1 K4 = 0 Number of points for this chapter = 2
Chapter 3				
TA-3.2.1	K4	1	3	There is a total of 17 questions required for Chapter 3. K2 = 3 K3 = 1 K4 = 13 Number of points for this chapter = 44
TA-3.2.2	K4	1	3	
TA-3.2.3	K4	2	3	
TA-3.2.4	K4	2	3	
TA-3.2.5	K2	1	1	
TA-3.2.6	K4	2	3	
TA-3.2.7	K4	2	3	
TA-3.2.8	K4	2	3	
TA-3.3.1	K2	1	1	
TA-3.3.2	K3	1	2	
TA-3.3.3	K2	1	1	
TA-3.4.1	K4	1	3	
Chapter 4				
TA-4.2.1	K2	3	1	There is a total of 11 questions required for Chapter 4. K2 = 9 K3 = 0 K4 = 2 Number of points for this chapter = 15
TA-4.2.2	K2			
TA-4.2.3	K2	3	1	
TA-4.2.4	K2			
TA-4.2.5	K2	3	1	
TA-4.2.6	K2			
TA-4.2.7	K4	2	3	
Chapter 5				
TA-5.2.1	K3	3	2	There is a total of 3 questions required for Chapter 5. K2 = 0 K3 = 3 K4 = 0 Number of points for this chapter = 6
TA-5.2.2	K3			
Chapter 6				
TA-6.2.1	K3	1	2	There is a total of 2 questions required for Chapter 6. K2 = 1 K3 = 1 K4 = 0 Number of points for this chapter = 3
TA-6.3.1	K2	1	1	
TOTALT 120 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	22	1	22
K3	15	3	45
K4	8	4	32
TOTALS	45		99

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
TTA-1.2.1	K2	1	1	There is a total of 2 questions required for Chapter 1. K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
TTA-1.2.2	K2	1	1	
Chapter 2				
TTA-2.2.1	K3	1	2	There is a total of 8 questions required for Chapter 2. K2 = 1 K3 = 5 K4 = 2 Number of points for this chapter = 17
TTA-2.3.1	K3	1	2	
TTA-2.4.1	K3	1	2	
TTA-2.5.1	K3	1	2	
TTA-2.6.1	K3	1	2	
TTA-2.7.1	K2	1	1	
TTA-2.8.1	K4	2	3	
Chapter 3				
TTA-3.2.1	K3	2	2	There is a total of 7 questions required for Chapter 3. K2 = 2 K3 = 5 K4 = 0 Number of points for this chapter = 12
TTA-3.2.2	K2	1	1	
TTA-3.2.3	K3	2	2	
TTA-3.2.4	K2	1	1	
TTA-3.3.1	K3	1	2	
Chapter 4				
TTA-4.2.1	K4	2	3	There is a total of 13 questions required for Chapter 4. K2 = 7 K3 = 4 K4 = 2 Number of points for this chapter = 21
TTA-4.2.2	K3	2	2	
TTA-4.2.3	K2	2	1	
TTA-4.2.4	K3	2	2	
TTA-4.3.1	K2	1	1	
TTA-4.3.2	K2	1	1	
TTA-4.4.1	K2	1	1	
TTA-4.4.2	K2	1	1	
TTA-4.5.1	K2	1	1	
TTA-4.5.2	K2	1	1	
TTA-4.6.1	K2	2	1	
TTA-4.7.1	K2	2	1	
TTA-4.8.1	K2	2	1	
Chapter 5				
TTA-5.1.1	K2	1	1	There is a total of 5 questions required for Chapter 5. K2 = 1 K3 = 0 K4 = 4 Number of points for this chapter = 13
TTA-5.2.1	K4	2	3	
TTA-5.2.2	K4	2	3	
Chapter 6				
TTA-6.1.1	K2	1	1	There is a total of 10 questions required for Chapter 6. K2 = 9 K3 = 1 K4 = 0 Number of points for this chapter = 11
TTA-6.1.2	K2	1	1	
TTA-6.1.3	K2	1	1	
TTA-6.1.4	K3	1	2	
TTA-6.2.1	K2	1	1	
TTA-6.2.2	K2	1	1	
TTA-6.2.3	K2	1	1	
TTA-6.2.4	K2	1	1	
TTA-6.2.5	K2	1	1	
TTA-6.2.6	K2	1	1	
TOTALT 120 minutes for 45 questions of 76 points				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	20	1	20
K3	17	3	51
K4	8	4	32
TOTALS	45		103

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If there are less questions to distribute between LOs in a group of LOs then each question MUST COVER a different LO

Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
TTA-1.2.1	K2	1	1	There is a total of 2 questions required for Chapter 1. K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
TTA-1.2.2	K2	1	1	
Chapter 2				
TTA-2.2.1	K3	1	2	There is a total of 8 questions required for Chapter 2. K2 = 1 K3 = 5 K4 = 2 Number of points for this chapter = 17
TTA-2.3.1	K3	2	2	
TTA-2.4.1	K3	1	2	
TTA-2.5.1	K3	1	2	
TTA-2.7.1	K2	1	1	
TTA-2.8.1	K4	2	3	
Chapter 3				
TTA-3.2.1	K3	2	2	There is a total of 7 questions required for Chapter 3. K2 = 0 K3 = 7 K4 = 0 Number of points for this chapter = 14
TTA-3.2.2	K3	2	2	
TTA-3.2.3	K3	2	2	
TTA-3.3.1	K3	1	2	
Chapter 4				
TTA-4.2.1	K4	2	3	There is a total of 13 questions required for Chapter 4. K2 = 7 K3 = 4 K4 = 2 Number of points for this chapter = 21
TTA-4.2.2	K3	2	2	
TTA-4.2.3	K2	2	1	
TTA-4.2.4	K3	2	2	
TTA-4.3.1	K2	1	1	
TTA-4.3.2	K2	1	1	
TTA-4.4.1	K2	1	1	
TTA-4.4.2	K2	1	1	
TTA-4.5.1	K2	1	1	
TTA-4.5.2	K2	1	1	
TTA-4.6.1	K2	2	1	
TTA-4.7.1	K2	2	1	
TTA-4.8.1	K2	2	1	
Chapter 5				
TTA-5.1.1	K2	1	1	There is a total of 5 questions required for Chapter 5. K2 = 1 K3 = 0 K4 = 4 Number of points for this chapter = 13
TTA-5.2.1	K4	2	3	
TTA-5.2.2	K4	2	3	
Chapter 6				
TTA-6.1.1	K2	1	1	There is a total of 10 questions required for Chapter 6. K2 = 9 K3 = 1 K4 = 0 Number of points for this chapter = 11
TTA-6.1.2	K2	1	1	
TTA-6.1.3	K2	1	1	
TTA-6.1.4	K3	1	2	
TTA-6.2.1	K2	1	1	
TTA-6.2.2	K2	1	1	
TTA-6.2.3	K2	1	1	
TTA-6.2.4	K2	1	1	
TTA-6.2.5	K2	1	1	
TTA-6.2.6	K2	1	1	
TOTAL 120 minutes for 45 questions of 78 points				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	5	1	5
K2	22	1	22
K3	5	3	15
K4	0	4	0
TOTALS	32		42

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
Keywords	K1	1	1	There is a total of 7 questions required for Chapter 1. K1 = 2 K2 = 5 K3 = 0 Number of points for this chapter = 7
FM-1.1.1	K2	1	1	
FM-1.1.2	K2	1	1	
FM-1.2.1	K2	1	1	
FM-1.2.2	K1	1	1	
FM-1.3.1	K2	1	1	
FM-1.3.2	K2	1	1	
Chapter 2				
FM-2.1.1	K3	1	1	There is a total of 13 questions required for Chapter 2. K1 = 4 K2 = 7 K3 = 2 Number of points for this chapter = 13
FM-2.1.2	K3	1	1	
FM-2.1.3	K2	1	1	
FM-2.1.4	K2	1	1	
FM-2.2.1	K1	1	1	
FM-2.2.2	K1	1	1	
FM-2.3.1	K1	1	1	
FM-2.3.2	K2	1	1	
FM-2.3.3	K2	1	1	
FM-2.3.4	K2	1	1	
FM-2.3.5	K2	1	1	
FM-2.3.6	K1	1	1	
FM-2.3.7	K2	1	1	
Chapter 3				
Keywords	K1	2	1	There is a total of 9 questions required for Chapter 3. K1 = 3 K2 = 4 K3 = 2 Number of points for this chapter = 9
FM-3.1.1	K2	1	1	
FM-3.1.2	K3	1	1	
FM-3.1.3	K2	1	1	
FM-3.1.4	K2	1	1	
FM-3.2.1	K1	1	1	
FM-3.2.2	K3	1	1	
FM-3.2.3	K2	1	1	
Chapter 4				
Keywords	K1	1	1	There is a total of 5 questions required for Chapter 4. K1 = 1 K2 = 3 K3 = 1 Number of points for this chapter = 5
FM-4.1.1	K2	1	1	
FM-4.1.2	K2	1	1	
FM-4.1.3	K3	1	1	
FM-4.2.1	K2	1	1	
Chapter 5				
FM-5.1.1	K2	1	1	There is a total of 6 questions required for Chapter 5. K1 = 3 K2 = 3 K3 = 0 Number of points for this chapter = 6
FM-5.1.2	K2	1	1	
FM-5.1.3	K1	1	1	
FM-5.2.1	K1	1	1	
FM-5.2.2	K1	1	1	
FM-5.2.3	K2	1	1	
TOTALT 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	19	1	19
K2	15	1	15
K3	6	3	18
K4	0	4	0
TOTALS	40		52

Question Distribution	K-Level	Maximum Number of Questions per LO	Suggested Points per Question
Chapter 1			
Keywords			
AuTFL-1.2.1	K1	1	1
AuTFL-1.3.1			
AuTFL-1.4.1			
AuTFL-1.1.1	K2	1	1
There is a total of 3 questions required for Chapter 1. K1 = 2 K2 = 1 K3 = 0 Number of points for this chapter = 3			
Chapter 2.1			
Keywords			
AuTFL-2.1.1.1	K1	1	1
AuTFL-2.1.2.1			
AuTFL-2.1.2.4			
AuTFL-2.1.1.3	K2	1	1
AuTFL-2.1.2.2	K2	1	1
AuTFL-2.1.2.3	K2	1	1
AuTFL-2.1.2.6	K2	1	1
AuTFL-2.1.2.5	K3	1	1
There is a total of 7 questions required for Chapter 2.1. K1 = 2 K2 = 4 K3 = 1 Number of points for this chapter = 7			
Chapter 2.2			
Keywords			
AuTFL-2.2.1.2	K1	1	1
AuTFL-2.2.3.2			
AuTFL-2.2.4.1			
AuTFL-2.2.1.1	K2	1	1
AuTFL-2.2.2.1	K2	1	1
AuTFL-2.2.4.2	K2	1	1
AuTFL-2.2.5	K3	1	1
There is a total of 7 questions required for Chapter 2.2. K1 = 3 K2 = 3 K3 = 1 Number of points for this chapter = 7			
Chapter 2.3			
Keywords			
AuTFL-2.3.1	K1	1	1
AuTFL-2.3.3			
There is a total of 2 questions required for Chapter 2.3. K1 = 2 K2 = 0 K3 = 0 Number of points for this chapter = 2			
Chapter 2.4			
Keywords			
AuTFL-2.4.1	K1	1	1
AuTFL-2.4.2			
There is a total of 2 questions required for Chapter 2.4. K1 = 1 K2 = 1 K3 = 0 Number of points for this chapter = 2			
Chapter 3.1			
Keywords			
AuTFL-3.1.1	K1	1	1
AuTFL-3.1.2			
AuTFL-3.1.4			
AUTFL-3.1.3	K2	1	1
There is a total of 3 questions required for Chapter 3.1. K1 = 2 K2 = 1 K3 = 0 Number of points for this chapter = 3			
Chapter 3.2			
Keywords			
AuTFL-3.2.1.1	K1	1	1
AuTFL-3.2.2.1			
AuTFL-3.2.2.2			
AuTFL-3.2.3.1	K2	1	1
AuTFL-3.2.4.3			
AuTFL-3.2.1.2			
AuTFL-3.2.3.2	K2	1	1
AuTFL-3.2.4.1	K2	1	1
AuTFL-3.2.4.2	K3	1	1
There is a total of 9 questions required for Chapter 3.2. K1 = 5 K2 = 3 K3 = 1 Number of points for this chapter = 9			
Chapter 4.1			
Keywords			
AuTFL-4.1.1	K1	1	1
AuTFL-4.1.2	K2	1	1
AuTFL-4.1.2	K3	1	1
There is a total of 3 questions required for Chapter 4.1. K1 = 1 K2 = 1 K3 = 1 Number of points for this chapter = 3			
Chapter 4.2			
Keywords			
AuTFL_4.2.4	K1	1	1
AuTFL-4.2.2			
AuTFL-4.2.3	K2	1	1
AuTFL-4.2.5	K3	1	1
AuTFL-4.2.1	K3	1	1
There is a total of 4 questions required for Chapter 4.2. K1 = 1 K2 = 1 K3 = 2 Number of points for this chapter = 4			
TOTALT 60 minutes for 40 questions			

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	6	1	6
K2	29	1	29
K3	2	3	6
K4	3	4	12
TOTALS	40		53

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
UTFL-1.1.1	K2	1	1	There is a total of 8 questions required for Chapter 1. K1 = 0 K2 = 8 K3 = 0 K4 = 0 Number of points for this chapter = 8
UTFL-1.1.2	K2	1	1	
UTFL-1.2.1	K2	1	1	
UTFL-1.2.2	K2	1	1	
UTFL-1.2.3	K2	1	1	
UTFL-1.3.1	K2	1	1	
UTFL-1.3.2	K2	1	1	
UTFL-1.3.3	K2	1	1	
Chapter 2				
UTFL-2.2.1	K2	1	1	There is a total of 2 questions required for Chapter 2. K1 = 0 K2 = 1 K3 = 0 K4 = 1 Number of points for this chapter = 2
UTFL-2.2.2	K4	1	1	
Chapter 3				
UTFL-3.1.1	K2	1	1	There is a total of 3 questions required for Chapter 3. K1 = 0 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 3
UTFL-3.2.1	K2	1	1	
UTFL-3.2.2	K2	1	1	
Chapter 4				
UTFL-4.1.1	K2	1	1	There is a total of 3 questions required for Chapter 4. K1 = 0 K2 = 2 K3 = 0 K4 = 1 Number of points for this chapter = 3
UTFL-4.2.1	K2	1	1	
UTFL-4.2.2	K4	1	1	
Chapter 5				
UTFL-5.2.1	K2	1	1	There is a total of 13 questions required for Chapter 5. K1 = 0 K2 = 11 K3 = 2 K4 = 0 Number of points for this chapter = 13
UTFL-5.3.1	K2	1	1	
UTFL-5.3.2	K2	1	1	
UTFL-5.3.3	K2	1	1	
UTFL-5.3.4	K2	1	1	
UTFL-5.3.5	K2	1	1	
UTFL-5.4.1	K2	1	1	
UTFL-5.5.1	K2	1	1	
UTFL-5.5.2	K2	1	1	
UTFL-5.6.1	K3	1	1	
UTFL-5.6.2	K2	1	1	
UTFL-5.6.3	K3	1	1	
UTFL-5.7.1	K2	1	1	
UTFL-5.8.1	K2	1	1	
Chapter 6				
UTFL-6.2.1	K2	1	1	There is a total of 2 questions required for Chapter 6. K1 = 0 K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
UTFL-6.3.1	K2	1	1	
Chapter 7				
UTFL-7.1.1	K4	1	1	There is a total of 1 questions required for Chapter 7. K1 = 0 K2 = 0 K3 = 0 K4 = 1 Number of points for this chapter = 1
Chapter 8				
UTFL-8.1.1	K2	1	1	There is a total of 2 questions required for Chapter 8. K1 = 0 K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
UTFL-8.2.1	K2	1	1	
Keywords				
Keywords	K1	6	1	There is a total of 6 questions required for Keywords. K1 = 6 Number of points for Keywords = 6
TOTAL 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	4	1	4
K2	26	1	26
K3	10	3	30
K4	0	4	0
TOTALS	40		60

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
AcT-1.1.1	K1	1	1	There is a total of 6 questions required for Chapter 1. K1 = 1 K2 = 5 K3 = 0 Number of points for this chapter = 6
AcT-1.1.2	K2	1	1	
AcT-1.1.3	K2	1	1	
AcT-1.2.1	K2	1	1	
AcT-1.2.2	K1	1	1	
AcT-1.2.3	K2	1	1	
Chapter 2				
AcT-2.1.1	K3	2	1	There is a total of 10 questions required for Chapter 2. K1 = 0 K2 = 6 K3 = 4 Number of points for this chapter = 10
AcT-2.2.1	K2	2	1	
AcT-2.2.2	K3	2	1	
AcT-2.3.1	K2	2	1	
AcT-2.3.2	K2	2	1	
Chapter 3				
AcT-3.1.1	K3	2	1	There is a total of 8 questions required for Chapter 3. K1 = 0 K2 = 4 K3 = 4 Number of points for this chapter = 8
AcT-3.2.1	K3	2	1	
AcT-3.3.1	K2	2	1	
AcT-3.3.1	K2	2	1	
Chapter 4				
AcT-4.1.1	K2	1	1	There is a total of 8 questions required for Chapter 4. K1 = 1 K2 = 7 K3 = 0 Number of points for this chapter = 8
AcT-4.1.2	K1	1	1	
AcT-4.2.1	K2	2	1	
AcT-4.2.2	K2	1	1	
AcT-4.3.1	K2	1	1	
AcT-4.3.2	K2	1	1	
AcT-4.4.1	K2	1	1	
Chapter 5				
AcT-5.1.1	K3	2	1	There is a total of 8 questions required for Chapter 5. K1 = 1 K2 = 5 K3 = 2 Number of points for this chapter = 8
AcT-5.2.1	K2	2	1	
AcT-5.2.2	K2	1	1	
AcT-5.2.3	K2	2	1	
AcT-5.3.1	K1	1	1	
TOTALT 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	5	1	5
K2	35	1,5	52,5
K3	0	3	0
K4	0	4	0
TOTALS	40		57,5

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
Keywords	K1	1	1	There is a total of 12 questions required for Chapter 1. K1 = 5 K2 = 7 K3 = 0 Number of points for this chapter = 12
LO-1.1.1	K1	4	1	
LO-1.2.1				
LO-1.6.2				
LO-1.6.3				
LO-1.1.2	K2	7	1	
LO-1.3.1				
LO-1.3.2				
LO-1.3.3				
LO-1.3.4				
LO-1.4.1				
LO-1.4.2				
LO-1.4.3				
LO-1.4.4				
LO-1.4.5				
LO-1.5.1				
LO-1.5.2				
LO-1.6.1				
Chapter 2				
LO-2.1.1	K2	4	1	There is a total of 4 questions required for Chapter 2. K1 = 0 K2 = 4 K3 = 0 Number of points for this chapter = 4
LO-2.1.2				
LO-2.2.1				
LO-2.2.2				
LO-2.2.3				
LO-2.2.4				
LO-2.2.4				
Chapter 3				
LO-3.1.1	K2	24	1	There is a total of 24 questions required for Chapter 3. K1 = 0 K2 = 24 K3 = 0 Number of points for this chapter = 24
LO-3.1.2				
LO-3.1.3				
LO-3.2.1				
LO-3.3.1				
LO-3.3.2				
LO-3.3.3				
LO-3.3.4				
LO-3.4.1				
LO-3.4.2				
LO-3.4.3				
LO-3.5.1				
LO-3.5.2				
LO-3.5.3				
LO-3.5.4				
LO-3.6.1				
LO-3.6.2				
LO-3.6.3				
LO-3.6.4				
LO-3.6.5				
LO-3.6.6				
LO-3.6.7				
LO-3.7.1				
LO-3.8.1				
LO-3.9.1				
LO-3.9.2				
LO-3.10.1				
LO-3.10.2				
LO-3.10.3				
TOTALT 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	11	1	11
K2	23	1	23
K3	6	3	18
K4	0	4	0
TOTALS	40		52

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
MAT-1.3.1	K1	1	1	There is a total of 8 questions required for Chapter 1. K1 = 1 K2 = 6 K3 = 1 Number of points for this chapter = 8
MAT-1.1.1				
MAT-1.2.1	K2	6	1	
MAT-1.4.1				
MAT-1.5.1				
MAT-1.7.1				
MAT-1.8.1	K3	1	1	
MAT-1.6.1				
Chapter 2				
MAT-2.1.4	K1	4	1	There is a total of 13 questions required for Chapter 2. K1 = 4 K2 = 6 K3 = 3 Number of points for this chapter = 13
MAT-2.1.5				
MAT-2.2.5				
MAT-2.2.6				
MAT-2.1.1	K2	6	1	
MAT-2.1.3				
MAT-2.1.6				
MAT-2.2.2				
MAT-2.2.4	K3	3	1	
MAT-2.3.1				
MAT-2.1.2				
MAT-2.1.7				
MAT-2.1.8	K3	3	1	
MAT-2.1.9				
MAT-2.2.1				
MAT-2.2.3				
Chapter 3				
MAT-3.1.4	K1	3	1	There is a total of 11 questions required for Chapter 3. K1 = 3 K2 = 6 K3 = 2 Number of points for this chapter = 11
MAT-3.1.6				
MAT-3.3.1				
MAT-3.1.3	K2	6	1	
MAT-3.1.7				
MAT-3.1.8				
MAT-3.2.1				
MAT-3.2.2	K3	2	1	
MAT-3.3.2				
MAT-3.4.1				
MAT-3.4.2				
MAT-3.1.1	K3	2	1	
MAT-3.1.2				
MAT-3.1.5				
MAT-3.3.3				
Chapter 4				
MAT-4.1.1	K1	2	1	There is a total of 4 questions required for Chapter 4. K1 = 2 K2 = 2 K3 = 0 Number of points for this chapter = 4
MAT-4.2.1				
MAT-4.3.1	K2	2	1	
MAT-4.3.2				
MAT-4.4.1				
Chapter 5				
MAT-5.3.1	K1	1	1	There is a total of 4 questions required for Chapter 5. K1 = 1 K2 = 3 K3 = 0 Number of points for this chapter = 4
MAT-5.1.1	K2	3	1	
MAT-5.2.1				
MAT-5.4.1				
TOTAL 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	0	2	0
K3	0	3	0
K4	0	4	0
TOTALS	0		0

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
PTFL-1.1	K2	1	1	There is a total of 6 questions required for Chapter 1. K1 = 1 K2 = 5 K3 = 0 K4 = 0 Number of points for this chapter = 6
PTFL-1.2	K2	2	1	
PTFL-1.3	K1	1	1	
PTFL-1.4	K2	1	1	
PTFL-1.5	K2	1	1	
Chapter 2				
PTFL-2.1	K2	1	1	There is a total of 4 questions required for Chapter 2. K1 = 1 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 4
PTFL-2.2	K2	1	1	
PTFL-2.3	K2	1	1	
PTFL-2.4	K1	1	1	
Chapter 3				
PTFL-3.1	K2	2	1	There is a total of 7 questions required for Chapter 3. K1 = 0 K2 = 5 K3 = 0 K4 = 2 Number of points for this chapter = 7
PTFL-3.2	K2	3	1	
PTFL-3.3	K4	1	1	
PTFL-3.4	K4	1	1	
Chapter 4				
PTFL-4.1.1	K4	1	1	There is a total of 20 questions required for Chapter 4. K1 = 0 K2 = 10 K3 = 4 K4 = 6 Number of points for this chapter = 20
PTFL-4.1.2	K4	1	1	
PTFL-4.1.3	K3	2	1	
PTFL-4.2.1	K2	2	1	
PTFL-4.2.2	K2	2	1	
PTFL-4.2.3	K4	1	1	
PTFL-4.2.4	K4	1	1	
PTFL-4.2.5	K4	1	1	
PTFL-4.2.6	K2	2	1	
PTFL-4.2.7	K3	2	1	
PTFL-4.2.8	K2	2	1	
PTFL-4.3.1	K2	2	1	
PTFL-4.4.1	K4	1	1	
Chapter 5				
PTFL-5.1.1	K2	2	1	There is a total of 3 questions required for Chapter 5. K1 = 0 K2 = 2 K3 = 0 K4 = 1 Number of points for this chapter = 3
PTFL-5.2.1	K4	1	1	
TOTALT 60 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	17	1	17
K3	11	3	33
K4	12	4	48
TOTALS	40		98

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If there are less questions to distribute between LOs in a group of LOs then each question MUST COVER a different LO

Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
AL-TAE-1.1.1	K2	1	1	There is a total of 2 questions required for Chapter 1. K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
AL-TAE-1.2.1	K2	1	1	
Chapter 2				
AL-TAE-2.1.1	K4	2	3	There is a total of 5 questions required for Chapter 2. K2 = 2 K3 = 0 K4 = 3 Number of points for this chapter = 11
AL-TAE-2.2.1	K4	1	3	
AL-TAE-2.3.1	K2	2	1	
Chapter 3				
AL-TAE-3.1.1	K2	1	1	There is a total of 10 questions required for Chapter 3. K2 = 5 K3 = 2 K4 = 3 Number of points for this chapter = 18
AL-TAE-3.2.1	K4	1	3	
AL-TAE-3.2.2	K2	1	1	
AL-TAE-3.2.3	K2	2	1	
AL-TAE-3.2.4	K4	2	3	
AL-TAE-3.3.1	K3	2	2	
AL-TAE-3.3.2	K2	1	1	
Chapter 4				
AL-TAE-4.1.1	K3	2	2	There is a total of 4 questions required for Chapter 4. K2 = 1 K3 = 2 K4 = 2 Number of points for this chapter = 11
AL-TAE-4.2.1	K4	2	3	
AL-TAE-4.3.1	K2	1	1	
Chapter 5				
AL-TAE-5.1.1	K2	2	1	There is a total of 6 questions required for Chapter 5. K2 = 3 K3 = 2 K4 = 1 Number of points for this chapter = 10
AL-TAE-5.2.1	K3	2	2	
AL-TAE-5.3.1	K4	1	3	
AL-TAE-5.4.1	K2	1	1	
Chapter 6				
AL-TAE-6.1.1	K3	1	2	There is a total of 5 questions required for Chapter 6. K2 = 4 K3 = 1 K4 = 0 Number of points for this chapter = 6
AL-TAE-6.1.2	K2	1	1	
AL-TAE-6.2.1	K2	1	1	
AL-TAE-6.3.1	K2	1	1	
AL-TAE-6.4.1	K2	1	1	
Chapter 7				
AL-TAE-7.1.1	K3	2	2	There is a total of 4 questions required for Chapter 7. K2 = 0 K3 = 4 K4 = 0 Number of points for this chapter = 8
AL-TAE-7.2.1	K3	2	2	
Chapter 8				
AL-TAE-8.1.1	K4	2	3	There is a total of 3 questions required for Chapter 9. K2 = 0 K3 = 0 K4 = 3 Number of points for this chapter = 9
AL-TAE-8.2.1	K4	1	3	
TOTAL 90 minutes for 40 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	0	1	0
K2	20	1	20
K3	15	3	45
K4	10	4	40
TOTALS	45		105

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question	
Chapter 1				
AS-1.1.1	K2	1	1	There is a total of 4 questions required for Chapter 1. K2 = 2 K3 = 0 K4 = 2 Number of points for this chapter = 8
AS-1.3.1				
AS-1.1.2	K4	1	3	
AS-1.1.3				
AS-1.2.1	K2	1	1	
AS-1.2.2	K4	1	3	
Chapter 2				
AS-2.2.1	K2	1	1	There is a total of 6 questions required for Chapter 2. K2 = 2 K3 = 3 K4 = 1 Number of points for this chapter = 11
AS-2.3.1				
AS-2.4.1	K2	1	1	
AS-2.4.3				
AS-2.4.2	K3	1	2	
AS-2.5.1	K3	1	2	
AS-2.6.1	K4	1	3	
AS-2.6.2				
AS-2.7.1	K3	1	2	
AS-2.6.3				
Chapter 3				
AS-3.1.1	K3	1	2	There is a total of 6 questions required for Chapter 3. K2 = 2 K3 = 2 K4 = 2 Number of points for this chapter = 12
AS-3.2.1	K4	1	3	
AS-3.3.1	K3	1	2	
AS-3.3.2				
AS-3.4.1	K2	1	1	
AS-3.6.1				
AS-3.4.2	K2	1	1	
AS-3.5.1	K4	1	3	
Chapter 4				
AS-4.1.1	K2	1	1	There is a total of 8 questions required for Chapter 4. K2 = 2 K3 = 4 K4 = 2 Number of points for this chapter = 16
AS-4.1.2	K3	1	2	
AS-4.2.1	K4	1	3	
AS-4.3.1				
AS-4.4.1	K2	1	1	
AS-4.4.4				
AS-4.4.2	K3	1	2	
AS-4.4.5	K4	1	3	
AS-4.4.3				
AS-4.5.1	K3	1	2	
AS-4.6.1	K3	1	2	
AS-4.5.2				
Chapter 5				
AS-5.1.1	K2	4	1	There is a total of 8 questions required for Chapter 5. K2 = 4 K3 = 4 K4 = 0 Number of points for this chapter = 12
AS-5.2.1				
AS-5.3.1				
AS-5.4.1				
AS-5.5.1				
AS-5.6.1				
AS-5.7.1				
AS-5.8.1				
AS-5.1.2	K3	4	2	
AS-5.2.2				
AS-5.3.2				
AS-5.4.2				
AS-5.5.2				
AS-5.6.2				
AS-5.7.2				
AS-5.8.2				
Chapter 6				
AS-6.1.1	K2	1	1	There is a total of 5 questions required for Chapter 6. K2 = 2 K3 = 2 K4 = 1 Number of points for this chapter = 9
AS-6.3.1				
AS-6.1.2	K3	1	2	
AS-6.1.3	K2	1	1	
AS-6.2.1				
AS-6.1.4	K4	1	3	
AS-6.3.2	K3	1	2	
Chapter 7				
AS-7.1.1	K2	1	1	There is a total of 3 questions required for Chapter 7. K2 = 2 K3 = 0 K4 = 1 Number of points for this chapter = 5
AS-7.2.1				
AS-7.2.2	K2	1	1	
AS-7.2.3				
AS-7.2.3	K4	1	3	
Chapter 8				
AS-8.1.1	K2	1	1	There is a total of 3 questions required for Chapter 8. K2 = 2 K3 = 0 K4 = 1 Number of points for this chapter = 5
AS-8.2.1				
AS-8.2.2	K4	1	3	
AS-8.2.3				
AS-8.2.3	K2	1	1	
Chapter 9				
AS-9.1.1	K2	1	1	There is a total of 2 questions required for Chapter 9. K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2
AS-9.3.1				
AS-9.1.2	K2	1	1	
AS-9.2.1				
TOTAL 120 minutes for 45 questions				

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	4	1	4
K2	29	1	29
K3	3	3	9
K4	4	4	16
TOTALS	40		58

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Question Distribution	K-Level	Number of Questions per LO	Suggested Points per Question				
Chapter 1							
AI-1.4.1	K1	1	1	There is a total of 4 questions required for Chapter 1. K1 = 1 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 4			
AI-1.5.1							
AI-1.1.1	K2	3	1				
AI-1.2.1							
AI-1.3.1							
AI-1.6.1							
AI-1.7.1							
AI-1.8.1							
AI-1.9.1							
AI-1.9.1							
Chapter 2							
AI-2.8.1	K1	1	1	There is a total of 4 questions required for Chapter 2. K1 = 1 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 4			
AI-2.1.1							
AI-2.2.1	K2	3	1				
AI-2.3.1							
AI-2.4.1							
AI-2.5.1							
AI-2.6.1							
AI-2.7.1							
AI-2.7.1							
AI-2.7.1							
Chapter 3							
AI-3.1.1	K2	3	1	There is a total of 4 questions required for Chapter 3. K1 = 0 K2 = 3 K3 = 1 K4 = 0 Number of points for this chapter = 5			
AI-3.1.2							
AI-3.1.3							
AI-3.2.1							
AI-3.4.1							
AI-3.5.1							
AI-3.3.1					K3	1	2
AI-3.3.1							
Chapter 4							
AI-4.5.1	K1	1	1		There is a total of 4 questions required for Chapter 4. K1 = 1 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 4		
AI-4.5.2							
AI-4.1.1	K2	3	1				
AI-4.2.1							
AI-4.3.1							
AI-4.4.1							
Chapter 5							
AI-5.2.1	K2	1	1	There is a total of 3 questions required for Chapter 5. K1 = 0 K2 = 1 K3 = 1 K4 = 1 Number of points for this chapter = 5			
AI-5.3.1							
AI-5.5.1							
AI-5.1.1					K3	1	2
AI-5.4.1	K4	1	2				
Chapter 6							
AI-6.1.1	K2	2	1		There is a total of 2 questions required for Chapter 6. K1 = 0 K2 = 2 K3 = 0 K4 = 0 Number of points for this chapter = 2		
AI-6.2.1							
Chapter 7							
AI-7.3.1	K1	1	1			There is a total of 4 questions required for Chapter 7. K1 = 1 K2 = 2 K3 = 0 K4 = 1 Number of points for this chapter = 5	
AI-7.1.1							
AI-7.2.1	K2	2	1				
AI-7.4.1							
AI-7.5.1							
AI-7.6.1							
AI-7.7.1	K4	1	2				
AI-7.7.1							
Chapter 8							
AI-8.1.1	K2	3	1	There is a total of 4 questions required for Chapter 8. K1 = 0 K2 = 3 K3 = 0 K4 = 1 Number of points for this chapter = 5			
AI-8.2.1							
AI-8.3.1							
AI-8.4.1							
AI-8.5.1							
AI-8.6.1							
AI-8.7.1							
AI-8.8.1					K4	1	2
AI-8.8.1							
Chapter 9							
AI-9.1.1	K2	4	1	There is a total of 6 questions required for Chapter 9. K1 = 0 K2 = 4 K3 = 1 K4 = 1 Number of points for this chapter = 8			
AI-9.2.1							
AI-9.3.1							
AI-9.4.1							
AI-9.6.1							
AI-9.5.1					K3	1	2
AI-9.7.1							
Chapter 10							
AI-10.1.1	K2	1	1		There is a total of 1 question required for Chapter 10. K1 = 0 K2 = 1 K3 = 0 K4 = 0 Number of points for this chapter = 1		
AI-10.2.1							
Chapter 11							
AI-11.1.1	K2	4	1	There is a total of 4 questions required for Chapter 11. K1 = 0 K2 = 4 K3 = 0 K4 = 0 Number of points for this chapter = 4			
AI-11.2.1							
AI-11.3.1							
AI-11.4.1							
AI-11.5.1							
AI-11.6.1							
AI-11.6.1							
AI-11.6.1							
TOTAL 60 minutes for 40 questions							

K-Level	Number of Questions	Question Timing in minutes	Total Time by K-Level (Approximate)
K1	6	1	6
K2	30	1	30
K3	4	3	12
K4	0	4	0
TOTALS	40		48

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Question Distribution	K-Level	Number of Questions per LO (group)*	Suggested Points per Question
Chapter 1			
GaMe-1.1.1	K1	1	1
GaMe-1.2.1			
GaMe-1.3.1			
GaMe-1.1.2	K2	3	1
GaMe-1.1.3			
GaMe-1.1.4			
GaMe-1.1.5			
There is a total of 4 questions required for Chapter 1. K1 = 1 K2 = 3 K3 = 0 K4 = 0 Number of points for this chapter = 4			
Chapter 2			
GaMe-2.1.1	K2	5	1
GaMe-2.1.2			
GaMe-2.1.3			
GaMe-2.1.4			
GaMe-2.1.5			
GaMe-2.2.1			
GaMe-2.2.2	K3	1	1
GaMe-2.2.3			
GaMe-2.2.4			
There is a total of 6 questions required for Chapter 2. K1 = 0 K2 = 5 K3 = 1 K4 = 0 Number of points for this chapter = 6			
Chapter 3			
GaMe-3.1.1	K2	6	1
GaMe-3.1.2			
GaMe-3.2.1			
GaMe-3.2.2			
GaMe-3.2.3			
GaMe-3.3.2			
GaMe-3.4.1	K3	1	1
GaMe-3.3.1			
There is a total of 7 questions required for Chapter 3. K1 = 0 K2 = 6 K3 = 1 K4 = 0 Number of points for this chapter = 7			
Chapter 4			
GaMe-4.1.1	K1	1	1
GaMe-4.2.1			
GaMe-4.4.2			
GaMe-4.4.3	K2	6	1
GaMe-4.2.2			
GaMe-4.3.1			
GaMe-4.3.2			
GaMe-4.3.3			
GaMe-4.4.1			
GaMe-4.5.1	K3	1	1
GaMe-4.4.4			
There is a total of 8 questions required for Chapter 4. K1 = 1 K2 = 6 K3 = 1 K4 = 0 Number of points for this chapter = 8			
Chapter 5			
GaMe-5.1.1	K1	1	1
GaMe-5.1.2	K2	4	1
GaMe-5.2.1			
GaMe-5.2.2			
GaMe-5.3.1			
There is a total of 5 questions required for Chapter 5. K1 = 1 K2 = 4 K3 = 0 K4 = 0			
Chapter 6			
GaMe-6.1.3	K1	1	1
GaMe-6.1.1	K2	4	1
GaMe-6.1.2			
GaMe-6.1.4			
GaMe-6.2.1			
GaMe-6.2.2			
GaMe-6.3.1	K3	1	1
GaMe-6.3.2			
There is a total of 5 questions required for Chapter 6. K1 = 1 K2 = 4 K3 = 0 K4 = 0 Number of points for this chapter = 5			
Chapter 7			
GaMe-7.1.1	K1	2	1
GaMe-7.1.2			
GaMe-7.3.1			
GaMe-7.1.3			
GaMe-7.2.1	K2	2	1
GaMe-7.3.3			
GaMe-7.4.1			
GaMe-7.3.2	K3	1	1
There is a total of 5 questions required for Chapter 7. K1 = 2 K2 = 2 K3 = 1 K4 = 0 Number of points for this chapter = 5			
TOTALT 60 minutes for 40 questions			