



## Copyright Notice

---

Copyright Notice © International Software Testing Qualifications Board (hereinafter called ISTQB®).

ISTQB® is a registered trademark of the International Software Testing Qualifications Board. Copyright © 2021, Exam WG.

All rights reserved.

The authors hereby transfer the copyright to the ISTQB®. The authors (as current copyright holders) and ISTQB® (as the future copyright holder) have agreed to the following conditions of use:

Extracts, for non-commercial use, from this document may be copied if the source is acknowledged.

Any Accredited Training Provider may use this document as the basis for a training course if the authors and the ISTQB® are acknowledged as the source and copyright owners of the document and provided that any advertisement of such a training course may mention the document only after official Accreditation of the training materials has been received from an ISTQB®-recognized Member Board.

Any individual or group of individuals may use this document as the basis for articles and books, if the authors and the ISTQB® are acknowledged as the source and copyright owners of the syllabus.

Any other use of this document is prohibited without first obtaining the approval in writing of the ISTQB®.

Any ISTQB®-recognized Member Board may translate this document provided they reproduce the abovementioned Copyright Notice in the translated version of the document.

## Document Responsibility

---

General responsibility for this document is under the ISTQB® Exam Working Group in cooperation with all syllabus Working Groups.

## 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 <b>v3.1</b>	40	40	26,00	26	60	75
Core	Advanced	CTAL-TM	Certified Tester Advanced Level <b>Test Manager v2.0 (2012)</b>	65	115	74,75	75	180	225
Core	Advanced	CTAL-TA	Certified Tester Advanced Level <b>Test Analyst v3.0 (2019)</b>	40	80	52,00	52	120	150
			Certified Tester Advanced Level <b>Test Analyst v3.1</b>	40	80	52,00	52	120	150
Core	Advanced	CTAL-TTA	Certified Tester Advanced Level <b>Technical Test Analyst v3.0 (2019)</b>	45	76	49,40	50	120	150
			Certified Tester Advanced Level <b>Technical Test Analyst v4.0</b>	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
<b>TOTALS</b>	<b>40</b>		<b>56</b>

\* [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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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				
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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				
<b>Chapter 6</b>				
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	
<b>TOTALT 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>56</b>

\* 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					
<b>Chapter 1</b>								
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					
<b>Chapter 2</b>								
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					
<b>Chapter 3</b>								
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	
<b>TOTALT 60 minutes for 40 questions</b>								

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
<b>TOTALS</b>	<b>40</b>		<b>79</b>

*\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>TOTAL 90 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>15</b>		<b>40</b>

*\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>TOTALT 45 minutes for 15 questions</b>				

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
<b>TOTALS</b>	<b>63</b>		<b>141</b>

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
<b>Chapter 1</b>			
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			
<b>Chapter 2</b>			
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			
<b>Chapter 3</b>			
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			
<b>Chapter 4</b>			
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			
<b>Chapter 5</b>			
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			
<b>Chapter 6</b>			
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			
<b>Chapter 7</b>			
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			
<b>TOTALT 180 minutes for 65 questions</b>			



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
<b>TOTALS</b>	<b>40</b>		<b>103</b>

\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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			
<b>Chapter 6</b>				
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	
<b>TOTALT 120 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>103</b>

\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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			
<b>Chapter 6</b>				
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	
<b>TOTALT 120 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>45</b>		<b>99</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>Chapter 6</b>				
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	
<b>TOTALT 120 minutes for 45 questions of 76 points</b>				

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
<b>TOTALS</b>	<b>45</b>		<b>103</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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		1	1	
TTA-4.4.1	K2	1	1	
TTA-4.4.2	K2	1	1	
TTA-4.5.1		1	1	
TTA-4.5.2	K2	1	1	
TTA-4.6.1	K2	2	1	
TTA-4.7.1		2	1	
TTA-4.8.1		2	1	
<b>Chapter 5</b>				
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	
<b>Chapter 6</b>				
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	
<b>TOTAL 120 minutes for 45 questions of 78 points</b>				

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
<b>TOTALS</b>	<b>32</b>		<b>42</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>TOTALT 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>52</b>

Question Distribution	K-Level	Maximum Number of Questions per LO	Suggested Points per Question
<b>Chapter 1</b>			
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			
<b>Chapter 2.1</b>			
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			
<b>Chapter 2.2</b>			
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			
<b>Chapter 2.3</b>			
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			
<b>Chapter 2.4</b>			
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			
<b>Chapter 3.1</b>			
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			
<b>Chapter 3.2</b>			
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			
<b>Chapter 4.1</b>			
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			
<b>Chapter 4.2</b>			
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			
<b>TOTALT 60 minutes for 40 questions</b>			

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
<b>TOTALS</b>	<b>40</b>		<b>53</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>Chapter 6</b>				
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	
<b>Chapter 7</b>				
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
<b>Chapter 8</b>				
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	
<b>Keywords</b>				
Keywords	K1	6	1	There is a total of 6 questions required for Keywords. K1 = 6 Number of points for Keywords = 6
<b>TOTAL 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>60</b>

*\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
AcT-2.3.2	K2	2	1	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>TOTALT 60 minutes for 40 questions</b>				



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
<b>TOTALS</b>	<b>40</b>		<b>57,5</b>

\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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				
<b>Chapter 3</b>				
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				
<b>TOTALT 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>52</b>

\* 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	
<b>Chapter 1</b>				
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				
<b>Chapter 2</b>				
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				
MAT-2.3.1	K3	3	1	
MAT-2.1.2				
MAT-2.1.7				
MAT-2.1.8				
MAT-2.1.9				
MAT-2.2.1				
MAT-2.2.3				
<b>Chapter 3</b>				
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				
MAT-3.3.2	K3	2	1	
MAT-3.4.1				
MAT-3.4.2				
MAT-3.1.1				
MAT-3.1.2				
MAT-3.1.5				
MAT-3.3.3				
<b>Chapter 4</b>				
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				
<b>Chapter 5</b>				
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				
<b>TOTAL 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>0</b>		<b>0</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>TOTALT 60 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>98</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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	
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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	
<b>Chapter 5</b>				
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	
<b>Chapter 6</b>				
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	
<b>Chapter 7</b>				
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	
<b>Chapter 8</b>				
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	
<b>TOTAL 90 minutes for 40 questions</b>				

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
<b>TOTALS</b>	<b>45</b>		<b>105</b>

\* 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	
<b>Chapter 1</b>				
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	
<b>Chapter 2</b>				
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				
<b>Chapter 3</b>				
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	
<b>Chapter 4</b>				
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				
<b>Chapter 5</b>				
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				
<b>Chapter 6</b>				
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	
<b>Chapter 7</b>				
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	
<b>Chapter 8</b>				
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	
<b>Chapter 9</b>				
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				
<b>TOTAL 120 minutes for 45 questions</b>				

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
<b>TOTALS</b>	<b>40</b>		<b>58</b>

\* 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	Suggested Points per Question				
<b>Chapter 1</b>							
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							
<b>Chapter 2</b>							
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							
<b>Chapter 3</b>							
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							
<b>Chapter 4</b>							
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							
<b>Chapter 5</b>							
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				
<b>Chapter 6</b>							
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							
<b>Chapter 7</b>							
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							
<b>Chapter 8</b>							
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							
<b>Chapter 9</b>							
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							
<b>Chapter 10</b>							
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							
<b>Chapter 11</b>							
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							
<b>TOTAL 60 minutes for 40 questions</b>							

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
<b>TOTALS</b>	<b>40</b>		<b>48</b>

\* 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
<b>Chapter 1</b>			
GaMe-1.1.1	K1	1	1
GaMe-1.1.2			
GaMe-1.1.3			
GaMe-1.1.4	K2	3	1
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			
<b>Chapter 2</b>			
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	K3	1	1
GaMe-2.2.2			
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			
<b>Chapter 3</b>			
GaMe-3.1.1	K2	6	1
GaMe-3.1.2			
GaMe-3.2.1			
GaMe-3.2.2			
GaMe-3.2.3			
GaMe-3.3.1	K3	1	1
GaMe-3.3.2			
GaMe-3.4.1			
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			
<b>Chapter 4</b>			
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	K3	1	1
GaMe-4.4.1			
GaMe-4.5.1			
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			
<b>Chapter 5</b>			
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			
<b>Chapter 6</b>			
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			
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			
<b>Chapter 7</b>			
GaMe-7.1.1	K1	2	1
GaMe-7.1.2			
GaMe-7.3.1			
GaMe-7.1.3	K2	2	1
GaMe-7.2.1			
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			
<b>TOTALT 60 minutes for 40 questions</b>			