

Appendix 14: Format of Acceptance Test

Acceptance Test: General

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	Test Case	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	General	If user logs in Arabic part of system, all contents should be described in Arabic.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
2	General	If user logs in Arabic part of system, main menu should be right alignment.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
3	General	Each chapter should contain 12 lessons.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
4	General	System should contain Arabic and English versions	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
5	General	The dialog box should be pop-up windows.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
6	General	If user operate the dialog box, "ALT" and "TAB" key should not be available.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
7	General	The dialog box should appear in the center of the screen.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
8	General	The delay time should be less than 5 seconds.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
9	General	"Date and Time" data field should have DD/MM/YYYY HH.MM (AM or PM) format.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
10	General	"CTRL-N" key should not be available.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
11	System Files	The "Master" file should be CSV format.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
12	System Files	The "Master" file should contain the following data. -Student ID. -Student Password -Class -Student name	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
13	System Files	The "Student" file should be CSV format.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
14	System Files	The "Student" file should contain the following data. -Student ID. -Date -Time	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
15	System Files	The "History" file should be CSV format.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
16	System Files	The "History" file should contain the following data. -Student ID. -Chapter -Lesson -Page ID	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
17	System Files	The "Question and Answer" file should be CSV format.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
18	System Files	The "Question and Answer" file should contain the following data. -Student ID. -Chapter -Lesson -Page ID -Date -Time -Question ID -Trial count	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
19	Log In System	If user logs in the system, user name should be displayed in the screen.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
20	System Files	If user input the invalid user name, the message "Invalid user name or password" should be appear.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High
21	System Files	If user logs out from system, the system should not be operated by the user.	JICA Test Case	05/Jan/2003		Approval / Not Approval		High

Acceptance Test: Chapter 9

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson1	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson1	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson1	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson1	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson1	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson1	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson1	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson1	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson2	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson2	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson2	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson2	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson2	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson2	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson2	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson2	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson3	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson3	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson3	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson3	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson3	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson3	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson3	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson3	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	06/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson4	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson4	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson4	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson4	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson4	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson4	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson4	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson4	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson5	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson5	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson5	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson5	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson5	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson5	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson5	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson5	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson6	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson6	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson6	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson6	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson6	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson6	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson6	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson6	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter9	07/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson7	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson7	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson7	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson7	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson7	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson7	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson7	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson7	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson8	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson8	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson8	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson8	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson8	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson8	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson8	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson8	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson10	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson10	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson10	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson10	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson10	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson10	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson10	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson10	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson9	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson9	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson9	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson9	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson9	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson9	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson9	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson9	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	08/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson11	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson11	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson11	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson11	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson11	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson11	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson11	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson11	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter9 Lesson12	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
2	Chapter9 Lesson12	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		
3	Chapter9 Lesson12	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
4	Chapter9 Lesson12	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
5	Chapter9 Lesson12	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
6	Chapter9 Lesson12	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
7	Chapter9 Lesson12	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High
8	Chapter9 Lesson12	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter9	09/Jan/2003		Approval / Not Approval		High

Acceptance Test: Chapter 10

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson1	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson1	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson1	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson1	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson1	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson1	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson1	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson1	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson2	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson2	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson2	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson2	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson2	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson2	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson2	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson2	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson3	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson3	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson3	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson3	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson3	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson3	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson3	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson3	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	12/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson4	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson4	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson4	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson4	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson4	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson4	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson4	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson4	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson5	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson5	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson5	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson5	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson5	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson5	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson5	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson5	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson6	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson6	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson6	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson6	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson6	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson6	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson6	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson6	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	13/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson7	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson7	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson7	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson7	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson7	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson7	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson7	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson7	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson8	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson8	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson8	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson8	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson8	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson8	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson8	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson8	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson9	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson9	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson9	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson9	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson9	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson9	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson9	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson9	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	14/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson10	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson10	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson10	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson10	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson10	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson10	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson10	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson10	Confirm that website adress is correct and newest.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson1	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson1	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson1	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson1	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson1	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson1	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson1	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson1	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High

Digital Self-Learning Development								
Acceptance Test Report								The JICA Study Team
Test No.	part	Test Item	Reference Document	Date	Signature	Result	Action for "Not Approval" Result	Importance
1	Chapter10 Lesson12	Confirm that Holy QURAN voice should be narrated.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
2	Chapter10 Lesson12	Confirm that contents are correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
3	Chapter10 Lesson12	Confirm that narration is correct.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
4	Chapter10 Lesson12	Confirm that narration should be stopped if the user presses the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
5	Chapter10 Lesson12	Confirm that movie should be stopped if the user stop the voice icon.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
6	Chapter10 Lesson12	In case that screen includes more than two movies, confirm that other movie should not stop if the user stop the movie.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
7	Chapter10 Lesson12	Confirm that in exercise marking system operates precisely.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High
8	Chapter10 Lesson12	Confirm that website address is correct and newest.	Detail Design Document for Lesson1 of Chapter10	15/Jan/2003		Approval / Not Approval		High

Appendix 15: Standard Style Document

The Following standards will be used as a standard format for implementing all self-learning contents the two month units (12 lessons in chapter 9 and 12 lessons in chapter 10) in Physics for Grade 11

English Version:

Title
Font : Arial
Font Size : 19
Font Color : Black
Style : Bold

Subtitle
Font : Arial
Font Size : 17
Font Color : Dark Blue
Style : Bold

Term
Font : Arial
Font Size : 15
Font Color : Red
Style : -

Definition
Font : Arial
Font Size : 15
Font Color : Black
Style : -

Formula
Font : Arial
Font Size : 15
Font Color : Red
Style : Bold

Text for Animation
Font : Arial
Font Size : 11
Font Color : Red
Style : -

Transmission of light

Coefficient of transmission, coefficient of reflection.

Coefficient of transmission : is the ratio of transmitted light
incident light

$$T = \frac{I_2}{I_1}$$

Coefficient of reflection : is the ratio of reflected light energy
incident light

$$R = \frac{I_3}{I_1}$$

Diagram showing light rays incident on a surface, with incident intensity I_1 , transmitted intensity I_2 , and reflected intensity I_3 .

Title	Font : Arial Font Size : 19 Font Color : Black “#000000” Style : Bold
Subtitle	Font : Arial Font Size : 17 Font Color : Dark Blue “#000066” Style : Bold
Body	Font : Arial Font Size : 15 Font Color : Black “#000000” Style : -
Definition	Font : Arial Font Size : 15 Font Color : Black “#000000” Style : -
Term	Font : Arial Font Size : 15 Font Color : Red “#990000” Style : -
Formula	Font : Arial Font Size : 15 Font Color : Red “#990000” Style : Bold
Text laws	Font : Arial Font Size : 19 Font Color : Dark Blue “#000066” Style : -
Text for Animation	Font : Arial Font Size : 11 Font Color : Red “#990000” Style : -
Bullets & Numbering	Font : Arial Font Size : 15 Font Color : Red “#990000” Style : Italic

Arabic Version:

The image shows a screenshot of the Macromedia Flash Player 6 interface. The main content area displays a slide with Arabic text and a diagram. Several callout boxes provide font style information for different elements on the slide:

- Title:** Font: AXtSAlwaBold, Font Size: 25, Font Color: Black, Style: Bold. Points to the text "نفاذ الضوء".
- Subtitle:** Font: AXtSAlwaBold, Font Size: 22, Font Color: Dark Blue, Style: Bold. Points to the text "معامل النفاذ و معامل الانعكاس".
- Formula:** Font: AXtSAlwaBold, Font Size: 22, Font Color: Red, Style: Bold. Points to the text "النفاذ الى الطاقة الضوئية".
- Definition:** Font: AXtSAlwaBold, Font Size: 20, Font Color: Black, Style: Bold. Points to the text "معامل الانعكاس : نسبة الطاقة الضوئية المنعكسة (ش ٣) الى نسبة الطاقة الضوئية الساقطة (ش ١)".
- Term:** Font: AXtSAlwaBold, Font Size: 20, Font Color: Red, Style: Bold. Points to the text "ش ٣" and "ش ١" in the diagram.
- Text for Animation:** Font: AXtSAlwaBold, Font Size: 15, Font Color: Red, Style: Bold. Points to the text "ش ٣" and "ش ١" in the diagram.

The diagram shows a light ray incident on a surface, with incident intensity I_1 and reflected intensity I_2 . A dashed line indicates the normal to the surface.

For Arabic Version:

Title	Font : AXtSAlwaBold Font Size : 25 Font Color : Black “#000000” Style : Bold
Subtitle	Font : AXtSAlwaBold Font Size : 22 Font Color : Dark Blue “#000066” Style : Bold
Body	Font : AXtSAlwaBold Font Size : 20 Font Color : Black “#000000” Style : Bold
Definition	Font : AXtSAlwaBold Font Size : 20 Font Color : Black “#000000” Style : Bold
Term	Font : AXtSAlwaBold Font Size : 20 Font Color : Red “#990000” Style : Bold
Formula	Font : AXtSAlwaBold Font Size : 22 Font Color : Red “#990000” Style : Bold
Text laws	Font : AXtSAlwaBold Font Size : 20 Font Color : Dark Blue “#000066” Style : Bold
Text for Animation	Font : AXtSAlwaBold Font Size : 15 Font Color : Red “#990000” Style : Bold
Bullets & Numbering	Font : AXtSAlwaBold Font Size : 20 Font Color : Red “#990000” Style : Italic & Bold

Appendix 16: Explanation of Trial Task and Schedule for School

1. Explanation to school

The project team visits school and explains the trial task and schedule.

: Explanation of project and trial

: How to fill the profile sheets.

: Check of IT environment (include support company and server ID & Password)

2. Making the school profile and student list

Each school makes the school profile sheet student list and lesson schedule by 1/Feb..

In trial the project need following student-groups

Group1 self-learning material (17-19 students is best)

Group2 ordinary lesson with digital material as presentation material

Group3 (Control group) ordinary lesson

3. Teacher training for trial

The project team will have 3 days teacher training in Omar Bin El- Khata school.

3/Feb (Mon) Teacher training for IT teacher.

4/Feb (Thu) Teacher training for Physics teacher

5/Feb (Wed) Teacher training for Physics teacher

(from: 9 am to : 1 pm)

4. Installation

The project team will install a trial system and contents into each school in first week of February.

5. Pre-test and Pre-questionnaire

Students of group1, gorup2 and group3 will take Pre-test and Pre- Pre-questionnaire.

1 lesson hour (45min) on between 5/Feb and 9/Feb

Project team will come school and help.

6. Students training in each school.

Before trial lesson, each school should have a training of group1 in 1 lesson hour.

How to operate digital materials. Practice of BBS. Free access to materials.

1 lesson on by 16/Feb (if impossible, after 16/Feb)

7. Trail lesson

Group2 and Goup3 have ordinal lesson from mid/ Feb to mid/Mar.

(in this term, teacher must teach Chapter 9 and 10)

Group1 has self-learning lesson from mid/ Feb(16th /Feb) to mid/Apr.

IT teacher may support lesson of Group1 .

Project team will come school and help in February. In March and April they come school once a week to help and discuss (not in lesson).

After each lesson, student answers short questionnaire. Teacher should record the situation e.g. student's question, trouble, remarkable point.

8. Post-test and Post-questionnaire

After trail Students of group1, gorup2 and group3 will take Post-test.

Students of group1 group3 will take Post-questionnaire.

1 lesson hour (45min)

Project team will come school and help.

Appendix 17: School Profile Sheet

Investigation sheet No.1 (school and teacher.)

1.School information

School name

Address

Telephone

FAX

Principal

Leader of the project

Grade form to.

The number of total classes

The number of total students

2. Teacher information (Teachers join this project).

2.1 Physic teacher (at least one teacher)

(1) Teacher 1

Name

e-mail address.

Tel

Teacher License qualification.

Years of experience as teacher.

IT ability.

ICDL yes no

MS-Word .good () () () () () poor

MS-Excel

E-mail.

Browser.

Windows operation

(2) Teacher 2

(3) Teacher 3

Class name

Number of students

IT ability of students.

MS-Word .good () () () () () poor

MS-Excel

E-mail.

Browser.

Windows operation

What kind of IT lessons have students had?

4. IT environment

4.1 The Internet connection

Type of line ADSL another line ()

Bandwidth (Speed) Kbps

Global address variable static (. . .)

4.2 Server PC specifications

CPU

HDD

Memory

4.3 PC room and PC

Number of PC room 1 room 2 room

Number of PC room1() room2()

PC specification

CPU

HDD

Memory

Video

Headset

ورقة استبيان رقم 1 .

المدرسة و المعلم

1. معلومات عن المدرسة.

أسم المدرسة : _____
العنوان : _____
رقم الهاتف : _____
رقم الفاكس : _____
أسم مدير المدرسة : _____
المسؤول عن المشروع : _____
من : _____ إلى : _____ الصفوف
مجموع عدد الصفوف : _____
مجموع عدد التلاميذ : _____

2. معلومات عن معلمي الفيزياء

(102) معلم الفيزياء (معلم واحد على الأقل)

معلم رقم 1

الاسم : _____
العنوان الإلكتروني : _____
رقم الهاتف : _____
الخلفية الأكاديمية للمعلم : _____
المؤهلات : _____
إسم الجامعة : _____
سنة التخرج : _____
عدد سنوات الخبرة : _____

IT ability القدرة على " تقنية المعلومات "

ضعيف () جيد جداً () جيد () – Word معالجة النصوص

ضعيف () جيد جداً () جيد () – Excel الجداول إلكترونية

ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز
ضعيف ()	جيد جداً ()	جيد ()	PowerPoint العرض الإلكتروني -
ضعيف ()	جيد جداً ()	جيد ()	Access قواعد البيانات -
ضعيف ()	جيد جداً ()	جيد ()	ICDL شهادة رخصة قيادة الحاسوب

معلم رقم 2

الاسم :

العنوان الإلكتروني :

رقم الهاتف :

الخلفية الأكاديمية للمعلم :

المؤهلات :

إسم الجامعة :

سنة التخرج :

عدد سنوات الخبرة :

IT ability القدرة على " تقنية المعلومات "

ضعيف ()	جيد جداً ()	جيد ()	Word معالجة النصوص -
ضعيف ()	جيد جداً ()	جيد ()	Excel الجداول إلكترونية -
ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز
ضعيف ()	جيد جداً ()	جيد ()	PowerPoint العرض الإلكتروني -
ضعيف ()	جيد جداً ()	جيد ()	Access قواعد البيانات -
ضعيف ()	جيد جداً ()	جيد ()	ICDL شهادة رخصة قيادة الحاسوب

معلم رقم 3

الاسم :

العنوان الإلكتروني :

رقم الهاتف :

الخلفية الأكاديمية للمعلم :

المؤهلات :

إسم الجامعة :

سنة التخرج :

عدد سنوات الخبرة :

IT ability القدرة على " تقنية المعلومات "			
ضعيف ()	جيد جداً ()	جيد ()	Word معالجة النصوص –
ضعيف ()	جيد جداً ()	جيد ()	Excel الجداول إلكترونية –
ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز
ضعيف ()	جيد جداً ()	جيد ()	PowerPoint العرض الإلكتروني –
ضعيف ()	جيد جداً ()	جيد ()	Acces قواعد البيانات –
ضعيف ()	جيد جداً ()	جيد ()	ICDL شهادة رخصة قيادة الحاسوب

2

3. معلومات عن معلمي الحاسوب

معلم رقم 1

الاسم :

العنوان الإلكتروني:

رقم الهاتف :

الخلفية الأكاديمية للمعلم :

المؤهلات :

إسم الجامعة :

سنة التخرج :

عدد سنوات الخبرة :

IT ability القدرة على " تقنية المعلومات "			
ضعيف ()	جيد جداً ()	جيد ()	Word معالجة النصوص –
ضعيف ()	جيد جداً ()	جيد ()	Excel الجداول إلكترونية –
ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز
ضعيف ()	جيد جداً ()	جيد ()	استخدام مع وينوز 2000 خادم () جيد ()

ضعيف () جيد جداً () معرفة في الشبكة جيد ()
ضعيف () جيد جداً () ICDL شهادة رخصة قيادة الحاسوب

معلم رقم 2

الاسم :

العنوان الإلكتروني:

رقم الهاتف :

الخلفية الأكاديمية للمعلم :

المؤهلات :

إسم الجامعة :

سنة التخرج :

عدد سنوات الخبرة :

IT ability القدرة على " تقنية المعلومات "

CISCO دورة في الشبكات – سيسكو

دورات اخرى ()

ضعيف () جيد جداً () Word معالجة النصوص – جيد ()

ضعيف () جيد جداً () Excel الجداول إلكترونية – جيد ()

ضعيف () جيد جداً () تصفح الانترنت

ضعيف () جيد جداً () استخدام نظام ويندوز

ضعيف () جيد جداً () استخدام مع ويندوز 2000 خادم جيد ()

ضعيف () جيد جداً () معرفة في الشبكة جيد ()
ضعيف () جيد جداً () ICDL شهادة رخصة قيادة الحاسوب

معلم رقم 3

الاسم :

العنوان الإلكتروني:

رقم الهاتف :

الخلفية الأكاديمية للمعلم :

المؤهلات :

إسم الجامعة :

سنة التخرج :

عدد سنوات الخبرة :

IT ability القدرة على " تقنية المعلومات "			
CISCO دورة في الشبكات – سيسكو			
دورات اخرى ()			
ضعيف ()	جيد جداً ()	جيد ()	Word معالجة النصوص –
ضعيف ()	جيد جداً ()	جيد ()	Excel الجداول إلكترونية –
ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز
ضعيف ()	جيد جداً ()	جيد ()	استخدام مع ويندوز 2000 خادم
ضعيف ()	جيد جداً ()	جيد ()	معرفة في الشبكة
ضعيف ()	جيد جداً ()	جيد ()	ICDL شهادة رخصة قيادة الحاسوب

4. معلومات عن الصف

(المجموعة التجريبية) التعلم الذاتي للمواد المحوسبة

(المجموعة الثانية) صف اعتيادي مع مواد رقمية كعرض للمواد

(المجموعة الثالثة) (المجموعة الضابطة) صف اعتيادي

(1) المجموعة الاولى

اسم الصف

عدد التلاميذ

(2) المجموعة الثانية

اسم الصف

عدد التلاميذ

(3) المجموعة الثانية

اسم الصف

عدد التلاميذ

IT مقدره التلميذ في تقنية المعلومات

ضعيف ()	جيد جداً ()	جيد ()	Word معالجة النصوص –
ضعيف ()	جيد جداً ()	جيد ()	Excel الجداول إلكترونية –
ضعيف ()	جيد جداً ()	جيد ()	تصفح الانترنت
ضعيف ()	جيد جداً ()	جيد ()	البريد اللاكتروني
ضعيف ()	جيد جداً ()	جيد ()	استخدام نظام ويندوز

ما هي الدروس التي تلقاها التلميذ بالنسبة ل تقنية المعلومات ؟

5. بيئة تقنية المعلومات

105 اتصال الانترنت

او أي خط اخر () ADSL نوع الخط

Kbps Bandwidth (Speed)

Global address variable static (...)

205 الخادم -

Server

CPU

HDD

الذاكرة

305 غرفة الحاسوب و الحاسوب

□ عدد غرف الحاسوب 1 غرفة 2 غرفة

□ عدد الحاسوب في غرفة 1 () غرفة 2 ()

□ مواصفات الحاسوب

□ CPU

HDD

الذاكرة

فيديو

سماعات للراس

Appendix 18: Pre Questionnaire Format

The Study on Digital Self-Learning Material Development

Student survey.

Pre-questionnaire.

The purpose of this questionnaire is to evaluate the Digital leaning Material in Jordan and to improve the educational system in the future.

These questions are about you, there is no relationship between this questionnaire and the school record at all. Therefore, we want you to answer with honesty as much as possible. These data will be used for the purpose of this study only. Your answers will be so confidential; nobody knows any personal information. Hence there is no need to write your name.

Kindly mark your answer with (x) in the brackets. (5) means very good (1) means very poor

School: _____

Class .: _____

Name:

Student ID: _____

Gender Boy Girl .

Q1) Approximately how often do you use a computer?

- Almost every day. 1-3 times per week 1-3 times per month
 Less than once a month Not al all

Q2) When you use computer , Where do you use it ?

(Check all that apply)

Home School Internet Cafe others (please specify) _____

Q3) When you use computer , What kind of software do you often use? (Check all that apply)

word processor mail browser spreadsheet game
 learning material . others (please specify). _____

Q4) Approximately how often do you play a video game or PC game ?

- Almost every day. 1-3 times per week 1-3 times per month
 Less than once a month Not al all

Q5) Do you think the Computer and the Internet are difficult?

5 4 3 2 1

Difficult () () () () () Easy ()

Q6) Do you want to learn the computer and the Internet?

5 4 3 2 1

Want () () () () () Don't want ()

Q7) Do you like the Computer and the Internet?

5 4 3 2 1

Like () () () () () Dislike

Q8) Do you want to use a computer and the Internet in classroom?

5 4 3 2 1

Want () () () () () Don't want ()

Q9) Do you like to watch science TV program and read science books?

5 4 3 2 1

Like () () () () () Dislike ()

Q10) Do you like the subject "Physics" in school?

5 4 3 2 1

Like () () () () () Dislike ()

Q11) Do you like experiments such as physics, biology, geology or chemistry ?

5 4 3 2 1

Like () () () () () Dislike ()

Q12) Do you like to study formulas of the subject "Physics" ?

5 4 3 2 1

Like () () () () () Dislike ()

Q13) How do you prefer to study?

5 4 3 2 1
Alone () () () () () In a group

Q14) Which is easier for you to understand the problem.?

5 4 3 2 1
With Teacher's explanation () () () () () Alone

Q15) Do you prefer courses that emphasize.?

5 4 3 2 1
Concrete (facts, data). () () () () () Abstract (concepts, theories).

Q16) When you start a homework problem, what do you like more?

5 4 3 2 1
Focus on the solution immediately. () () () () () Understand the problem first.

Q17) When you resolve the math problem, which way you are good at?

5 4 3 2 1
Using formula () () () () () Using graph or figure

Q18) For entertainment, which do you like.?

5 4 3 2 1
Watching Television. () () () () ()
Reading a book. () () () () ()
Electronic games () () () () ()
Play Station () () () () ()
Atari games () () () () ()

بسم الله الرحمن الرحيم

وزارة التربية والتعليم

الاستبيان القبلي

لمبحث الفيزياء للصف الحادي عشر

	المديرية
	المدرسة
	اسم الطالب
	المجموعة

هدف الاستبيان:

هذا الاستبيان لغايات التجريب والبحث ونتائجه غير مرتبطة بالتقويم أو العلامة المدرسية.

دراسة التطوير للتعلم الذاتي الرقمي

نسخة الطالب .

استبانة قبل التجريب.

إن الغرض من الإستبانة تقييم المادة التعليمية الالكترونية لتحسين التعليم في الاردن في المستقبل .
والأسئلة تخصكم ، واجابتكم الصريحة ضرورية لاعطاء معلومات دقيقة. وليس من
الضروري ذكر الاسماء. نؤكد لكم ان المعلومات ستكون سرية ولن تحفظ في المدرسة.

(بين القوسيين امام كل فقرة من الفقرات الاتية ولكل فقرة خياراً واحداً ، علماً بأن X يرجى وضع اشارة)
(5) تعني عالي جدا و (1) تعني قليل جدا .

الجنس () ذكر () أنثى

س1) مدى استعمالك للحاسوب تقريبا ؟
() كل يوم تقريبا . () 1-3 مرات في الاسبوع () 1-3 مرات في الشهر
() أقل من مرة في الشهر () عدم الاستعمال قطعياً

س2) إذا اجبت على أي اختيار من الاختيارات الاربعة الاول؟
(ضع اشارة امام العبارة التي تنطبق عليك)
() المنزل () المدرسة () قاعة انترنت () غير هذا (الرجاء حدد)

س3) عند استعمالك الحاسوب " ، فما هي البرامج التي تستخدمها باستمرار ؟
(ضع اشارة امام العبارة التي تنطبق عليك)
() معالج للكلمات () البريد الالكتروني () تصفح الشبكة () صفحة بيانات
() الألعاب
() تعلم مواد () غير ذلك (الرجاء حدد)

س4) مدى استعمالك لألعاب الفيديو أو ألعاب الحاسوب؟
() كل يوم تقريبا () 1-3 مرات اسبوعياً () 1-3 مرات في الشهر
() أقل من مرة في الشهر () عدم الاستعمال قطعياً.

س5) هل تظن ان استخدام الحاسوب والانترنت ؟

1 2 3 4 5

صعب () () () () () سهل

س6) هل تريد ان تتعلم استعمال الحاسوب و الانترنت ؟

1 2 3 4 5

أريد () () () () () لا أريد

س7) هل تحب الحاسوب والانترنت ؟

1 2 3 4 5

أحب () () () () () لا أحب

س8) هل تريد ان تستخدم الحاسوب والانترنت في الصف ؟

1 2 3 4 5

أريد () () () () () لا أريد

س9) هل ترغب في مشاهدة البرامج العلمية من خلال الوسائل التالية، التلفزيون، الفيديو وقراءة الكتب العلمية ؟

1 2 3 4 5

أرغب () () () () () لا أرغب

س10) هل تحب مادة الفيزياء في المدرسة ؟

1 2 3 4 5

أحب () () () () () لا أحب

س11) هل تحب التجارب مثلا في الفيزياء ، الاحياء ، علوم الارض ، الكيمياء ؟

1 2 3 4 5

أحب () () () () () لا أحب

س12) هل ترغب في دراسة المعادلات في مادة الفيزياء ؟

1 2 3 4 5

أرغب () () () () لا أرغب

س13) كيف تفضل ان تتعلم ؟

1 2 3 4 5

وحدك () () () () ضمن مجموعة

س14) ما الأسهل لفهم المسائل ؟

1 2 3 4 5

وحدك () () () () مساعدة المعلم

س15) كيف تفضل محتوى المناهج المقررة ؟

1 2 3 4 5

محددة (حقائق ، بيانات) () () () () مجردة (مفاهيم ، نظريات)

س16) عندما تبدأ في حل الأسئلة كواجب بيتي ، هل انت من الذين ؟

1 2 3 4 5

يبدأ الحل فوراً () () () () يفهم الأسئلة أولاً

س17) عندما تحل مسألة في الرياضيات ، هل انت افضل في ؟

1 2 3 4 5

استخدام العلاقات الرياضية () () () () استخدام الاشكال والرسوم البيانية

س18) للتسلية ، ماذا تحب ؟

1 2 3 4 5

() () () () مشاهدة التلفاز

() () () () ألعاب الحاسوب

() () () () ألعاب PlayStation

() () () () ألعاب الكترونية

() () () () Atari ألعاب الكترونية أخرى مثل

() () () () قراءة كتاب

Appendix 19: Pre Test Format

Choose the right answer for the following paragraphs:

1-We do not see the transparent objects because all incident rays:

- a- Reflected b- Transmitted c- Absorbed d- Analyzed

2- A ray fell on an incident angle and was reflected where the angle between the incident ray and the reflected ray = 80° , therefore the angle of incident will be:

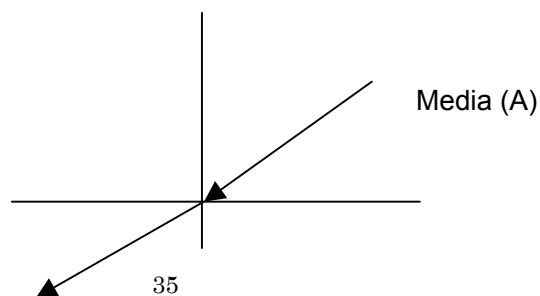
- a- 40° b- 80° c- 160° d- 50°

3- Light spreads from its source in the form of circular waves, and each wave point on the surface of the waves acts as a source of new light which transmit secondary waves, this principle is:

- a- Ferma b- Huggins c- Newton d- Galileo

4- An incident ray transpassed from media (A) to the Air, and the was deviated in its direction as shown in the following figure: therefore, the refracted coefficient of media (A):

- a- 1,33 b- 1,5 c- 1,75 d- 0,75



5-An incident ray fell on the surface of a lens, transpass without any

deviation, therefore, the incident ray must have:

- a- went through the focal lens.
- b- parallel to the basic axis
- c- went through central focal lens
- d- went through curved focal lens

6- It is impossible for the formed images of a concave lens to be :

- a- real
- b- moderate & small
- c- virtual & big
- d-real & equal

7- Diverges Lens, its focal length = (f) . If you put an object in front it with a distance of (f) , therefore:

- a- there will be no image for the object
- b- image will be one & half smaller
- d- image will be equal to object
- d- image will be double

8- Man who repairs watches uses concave lens to see clearly the small parts of a watch because those parts have images:

- a- big & real
- b- big & virtual
- c- big & convert
- d-real & moderate

9- In the un-uniformed reflection, the incident angle is not equal. And the reflected angle would be:

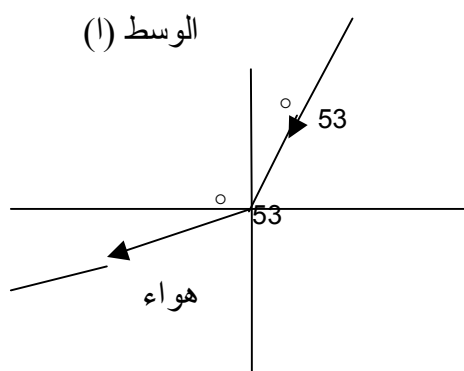
- a- even & equals the incident angle
- b- uneven but equal incident angle
- c-uneven & doesn't equal incident angle
- d- even but does not equal the incident angle

10- An object was displayed in front of a concave lens with a distance of 30 cm, a virtual image was formed twice bigger, therefore, the focal length would be:

- a- 30 cm
- b- 60 cm
- c- 90 cm
- d- 20 cm

اختر الاجابة الصحيحة في كل من الفقرات التالية :-

- 1- لا نرى الأجسام الشفافة لأن جميع الأشعة الضوئية الساقطة عليها :
أ) تنعكس عنها ب) تنفذ منها ج) تمتص فيها د) تتحلل فيها
- 2- سقط شعاع ضوئي على سطح مصقول فانعكس عنه بحيث كانت الزاوية بين الشعاعين الساقط والمنعكس تساوي (80 °) . بذلك تكون زاوية السقوط :
أ) 40 ° ب) 80 ° ج) 160 ° د) 50 °
- 3- (ينتشر الضوء من مصدره بشكل موجات كروية ، وكل نقطة على سطح هذه الموجات تعمل وكأنها مصدرا ضوئيا جديدا يبعث موجات ثانوية) 0 هذا هو نص مبدأ :
أ) فيرما ب) هويغنز ج) نيوتن د) غاليليو
- 4- انتقل شعاع ضوئي من الوسط (أ) الى الهواء فانحرف مساره كما في الشكل الآتي ، بذلك يكون معامل انكسار الوسط (أ) :
أ) 1.33 ب) 1.5 ج) 1.75 د) 0.75



- 5- سقط شعاع ضوئي على سطح عدسة فاخترقها دون أن يعاني من أي انحراف . بذلك يكون الشعاع الساقط :
(أ) مارا ببؤرة العدسة
(ب) موازي للمحور الرئيسي لها وغير منطبق عليه
(ج) مارا بالمركز البصري للعدسة
(د) مارا بمركز تكور العدسة
- 6- لا يمكن أن تكون الأخيلة الناتجة في العدسة المحدبة :
(أ) حقيقية مقلوبة
(ب) مصغرة معتدلة
(ج) وهمية مكبرة
(د) حقيقية ومساوية
- 7- عدسة مفرقة بعدها البؤري (ع) ، اذا وضع جسم أمامها على بعد (ع) منها فانه :
(أ) لا يتكون للجسم خيال
(ب) يتكون له خيال مصغر نصف مرة
(ج) يتكون للجسم خيال مساو له
(د) يتكون للجسم خيال مكبر مرتين
- 8- يستخدم الساعاتي العدسة المحدبة ليرى بوضوح الأجزاء الصغيرة في الساعة لأنها تكون لتلك الأجزاء أخيلة :
(أ) مكبرة حقيقية
(ب) مكبرة وهمية
(ج) مكبرة مقلوبة
(د) حقيقية معتدلة
- 9- في الانعكاس غير المنتظم تكون زوايا السقوط غير متساوية وتكون زوايا الانعكاس :
(أ) متساوية وتساوي زوايا السقوط

ب) غير متساوية وتساوي زوايا السقوط المناظرة لها

ج) غير متساوية ولا تساوي زوايا السقوط المناظرة لها

د) متساوية ولا تساوي زوايا السقوط المناظرة لها

10- وضع جسم أمام عدسة محدبة وعلى بعد (30سم) منها فنكُون له فيها خيال وهمي مكبر مرتين . بذلك يكون البعد

البؤري للعدسة :

د) 20سم

ج) 90 سم

ب) 60 سم

أ) 30 سم

Appendix 20: In-Trial Questionnaire Format

In-trial questionnaire for each lesson.

Attention

Q1) Do animations, simulations and narrations make you have interest in learning?

1 2 3 4 5

Yes () () () () () No

Q2) Do you think the contents of this lesson are different from ordinal class?

1 2 3 4 5

Yes () () () () () No

Relevance

Q3) is the contents of this lesson familiar with you?

1 2 3 4 5

Yes () () () () () No

Q4) Can you find what is learning objectives in this lesson?

1 2 3 4 5

Yes () () () () () No

Q5) Does the content of lesson help you achieve the learning objectives?

1 2 3 4 5

Yes () () () () () No

Confidence

Q6) Are you confident that you learn this lesson fully?

1 2 3 4 5

Yes () () () () () No

Q7) Do you think this lesson is difficult for you?

1 2 3 4 5

Yes () () () () () No

Q8) Do you learn various things by yourself, and can you look it up in these contents?

1 2 3 4 5

Yes () () () () () No

Satisfaction

Q9) Do you think that the contents of this lesson has many content that make you be satisfied?

1 2 3 4 5

Yes () () () () () No

Q10) Does the subject of this lesson always give you the right directions?

1 2 3 4 5

Yes () () () () () No

نسخة الطالب .

استبيان خلال التجريب .

ان الغرض من الإستبانة تقييم المادة التعليمية الالكترونية لتحسين التعليم في الاردن في المستقبل .
والأسئلة تخصكم ، واجابتم الصريحة ضرورية لإعطاء معلومات دقيقة . وليس من
الضروري ذكر الأسماء . نؤكد لكم ان المعلومات ستكون سرية ولن تحفظ في المدرسة .

(بين القوسيين امام الفقرات التالية ، علما بأن (5) تعني عالي جدا و (1) ييرجى وضع اشارة)
قليل جدا .

الجنس () ذكر () انثى

الرجاء الاجابة على الاسئلة التالية والتي قد درستها الان .

س(1) هل الصور المتحركة، الظاهرة ، القصص ، تحبذك على الدراسة أكثر ؟

1 2 3 4 5
() () () () ()

س(2) هل تظن ان المحتوى في هذا الدرس يختلف عن المحتوى في الصف العادي ؟

1 2 3 4 5
() () () () ()

س(3) هل محتوى الدرس هذا مألوف لديك ؟

1 2 3 4 5
() () () () ()

س(4) هل ممكن ان تعرف ما هو الهدف من هذا الدرس ؟

1 2 3 4 5
() () () () ()

س(5) هل المحتوى في هذا الدرس يساعدك للوصول الى هدفك ؟

1 2 3 4 5
() () () () ()

س6) هل انت مقتنع بأنك تعلمت هذا الدرس كاملا ؟

1 2 3 4 5
() () () () ()

س7) هل تظن أن هذا الدرس صعبا بالنسبة لك ؟

1 2 3 4 5
() () () () ()

س8) هل تتعلم اشياء متنوعة بنفسك ، وهل باستطاعتك ان تجدها في هذا المحتوى

1 2 3 4 5
() () () () ()

س9) هل تعتقد ان المحتوى في هذا الدرس يوجد فيه محتوى جعلك راضيا ؟

1 2 3 4 5
() () () () ()

س10) هل الموضوع في هذا الدرس يعطيك الاتجاه السليم دائما ؟

1 2 3 4 5
() () () () ()

س11) هل هنالك أي شيء لا تستطيع ان تفهمه في هذا المحتوى ؟ (تفاسير ، اسئلة ، ...)

س12) هل هنالك شيء جيد جدا وسهل للفهم في هذا المحتوى ؟

Appendix 21: Post Questionnaire Format

The Study on Digital Self-Learning Material Development

Student survey.

Post-questionnaire.

The purpose of this questionnaire is to evaluate the Digital leaning Material in Jordan and to improve the educational system in the future.

These questions are about you, there is no relationship between this questionnaire and the school record at all. Therefore, we want you to answer with honesty as much as possible. These data will be used for the purpose of this study only. Your answers will be so confidential; nobody knows any personal information. Hence there is no need to write your name.

Kindly mark your answer with (x) in the brackets . (5) means very good (1) means very poor

School: _____

Class .: _____

Name:

Student ID: _____

Gender Boy Girl .

Q1) Do you think the Computer and Internet are difficult to use ? to learn ?

5 4 3 2 1

Difficult () () () () () easy

Q2) Do you want to learn the computer and the Internet?

5 4 3 2 1

want () () () () () don't want

Q3) Do you like Computer and the Internet?

5 4 3 2 1

like () () () () () dislike

Q4) Do you like the subject "Physics" at school?

5 4 3 2 1

like () () () () () dislike

Q5) Do you like experiments such as physics, biology, geology and chemistry ?

5 4 3 2 1

like () () () () () dislike

1

Q6) Do you like to study formulas of the subject “Physics” ?

5 4 3 2 1

like () () () () () dislike

Q7) Do you want to continue a self-learning using digital materials?

5 4 3 2 1

want () () () () () don't want

Q8) Do you think the digital materials help you study subject “Physics” easily?

5 4 3 2 1

() () () () ()

Q9) which do you prefer to study?

5 4 3 2 1

Ordinary class () () () () () self-learning with digital material

Q10) Do you like to use a computer and the Internet in class?

5 4 3 2 1

() () () () ()

Q11) Do animations, simulations and narrations make you have interest in learning?

5 4 3 2 1

() () () () ()

Q12) Do you think the contents of lessons are different from ordinary class?

5 4 3 2 1

() () () () ()

Q13) Are the contents of the lessons familiar with you?

5 4 3 2 1
() () () () ()

Q14) Can you find what are the learning objectives in lessons?

5 4 3 2 1
() () () () ()

Q15) Do the content of lessons help you achieve the learning objectives?

5 4 3 2 1
() () () () ()

Q16) Are you confident that you learn lessons fully?

5 4 3 2 1
() () () () ()

Q17) Do you think lessons are difficult for you?

5 4 3 2 1
() () () () ()

Q18) Do you learn various things by yourself, and can you find or identify in these contents?

5 4 3 2 1
() () () () ()

Q19) Do you think that the contents of lessons have many content that make you satisfied?

5 4 3 2 1
() () () () ()

Q20) Does the subject of lessons always give you the right instructions ?

5 4 3 2 1
() () () () ()

دراسة ادوات التطوير للتعلم الذاتي الرقمي

مسح التلميذ .

الاستبانة البعيدة .

هوية التلميذ :

س1) هل تظن ان الحاسوب والانترنت صعبة ؟

5 4 3 2 1

صعبة () () () () () سهلة

س2) هل تريد ان تتعلم استعمال الحاسوب و الانترنت ؟

5 4 3 2 1

أريد () () () () () لا أريد

س3) هل تحب الحاسوب والانترنت ؟

5 4 3 2 1

أحب () () () () () لا أحب

س4) هل تحب مادة الفيزياء في المدرسة ؟

5 4 3 2 1

أحب () () () () () لا أحب

س5) هل تحب مادة التجارب مثلا في الفيزياء ، علم الاحياء ، الجغرافيا ، الكيمياء ؟

5 4 3 2 1

أحب () () () () () لا أحب

س6) هل ترغب في دراسة المعادلات في مادة الفيزياء ؟

5 4 3 2 1

أرغب () () () () () لا أرغب

س7) هل تريد غي الاستمرار في التعليم الذاتي مستخدما المواد الرقمية ؟

5 4 3 2 1

أريد () () () () () لا أريد

س8) هل تعتقد ان المواد الرقمية ساعدتك على دراسة مادة الفيزياء بسهولة ؟

5 4 3 2 1
نعم () () () () لا

س9) ماذا تفضل ان تدرس ؟

5 4 3 2 1
الصف الاعتيادي () () () () ()
التعلم الذاتي بواسطة المواد الرقمية

س10) هل تحب استخدام الحاسوب والانترنت في الصف ؟

5 4 3 2 1
نعم () () () () لا

س11) هل الصور المتحركة ، الظاهرة ، القصص تجعلك مهتما اكثر في الدرس ؟

5 4 3 2 1
نعم () () () () لا

س12) هل تظن ان المحتوى في هذا الدرس يختلف عن الصف العادي ؟

5 4 3 2 1
نعم () () () () لا

س13) هل محتوى الدرس هذا مألوف لديك ؟

5 4 3 2 1
نعم () () () () لا

س14) هل ممكن ان تعرف ما هو الهدف من هذا الدرس ؟

5 4 3 2 1
نعم () () () () لا

س15) هل المحتوى في هذا الدرس يساعدك للوصول الى هدفك ؟

5 4 3 2 1
نعم () () () () لا

س16) هل تعتقد انك فهمت الدرس كاملا ؟

5 4 3 2 1
نعم () () () () لا

س17) هل تعتقد ان هذا الدرس صعبا ؟

5 4 3 2 1
لا () () () () () نعم

س18) هل تتعلم أشياء متنوعة بنفسك، هل ممكن ان تجدها في هذا المحتوى؟

5 4 3 2 1
لا () () () () () نعم

س19) هل تعتقد ان المحتوى في هذا الدرس يوجد فيه محتوى جعلك راضيا ؟

5 4 3 2 1
لا () () () () () نعم

س20) هل الموضوع في هذا الدرس يعطيك الاتجاه السليم دائما ؟

5 4 3 2 1
لا () () () () () نعم

Appendix 22: Post Test Format

Choose the correct answer for the following questions:

1- Beam of lights fell on transparent substance, where coefficient reflection equals coefficient of transmission (0.3), Therefore coefficient of absorption is equal to :

- a- 0.3 b- 0.4 c- 0.6 d- 0.7

2- A ray fell on a surface of a plane mirror. Therefore, the angle between the ray and the surface of the flat mirror = (30°) therefore, the angle of reflection equals:

- a- 30° b- 90° c- 60° d- 120°

3- A ray was transmitted from media (A) its coefficient of refraction (1.6) to media (B) its incident angle = (37°) and its refracted angle (53°), therefore coefficient of refraction of media (B) would be:

- a- 1.2 b- 2.1 c- 0.75 d- 1.33

4- Small deviated angle occurs in a 3 angle prism , when the incident angle on the first surface equals to:

- a- transmitted angle from the second surface b- incident angle on second surface
c- head surface d- refracted angle above the first surface

5- A glass cylinder with a convex end and on its axis there is a bubble, distant 4cm from the curved pole, when a person looks at it from the side of axis as in the figure , it seems to be

2cm from its curved pole,. If the coefficient refraction for glass = (1.6) . What is the half radius of the curved using (cm unit).

- a- 6 b- 0.6 c-4 d- 2

6- The images which are formed in a concave lens cannot be :

- a- real converted b- moderate convex
c- virtual big d- real & equal to object

7- A man who repairs watches uses concave lens for enlarging parts of the watch when he puts the watch:

- a- in the focal lens b- in the central of curved lens
c- between the focal lens & central of curve d- between the focal lens & curved pole

8- A curved lens, its focal length equals (f), an object was displaced in front of it with a distance (f) from it:

- a- no image will be formed b-an image will be formed smaller in one & half
c- an equal image will be formed d-an image will be formed twice bigger

9- Two surfaced concave lens , made of glass, half of its radius surface (6)cm , refracted coefficient (1.5) . Considering it is displaced in the air, so, the focal length by unit (cm) equals :

- a- -6 b- 9 c- Zero d- 6

10- Far sightedness for the eye is due to :

- a- elongation by birth due to b- increasing in the concavity of eye
 eye ball d- decreasing in the focal length c-concavity of the lens

****** a pendulum vibrating according to the function : $y = 4 \sin (\lambda / 2 t + (\lambda / 2)$, knowing that

the Constance measured by the SI units, using the previous function to solve the two items 11 & 12.

11- Displacement of a pendulum when $t = 1$ sec (unit m) equals:

- a- Zero b- 4 c- 2 d- 1

12- Frequency of a pendulum in Hertz equals:

- a- 4 b-0.25 c-0.5 d-1

13-Light spreads from its source in the form of circular waves , and each point on the surface of the waves acts as a source of new light which transmit secondary waves, this principle is:

- a- Ferma b-Huggins c-Newton d-Galileo

14- When a water wave enter from deep media to another media less in deep, the properties of that wave which does not change is:

- a- wave length b- speed c- frequency d- propagated direction

15-A wave peak moves (A) towards the right with amplitude of (3cm), and faces the crest of another wave (B) moving towards the left with amplitude of (7cm). The moment one is going through the other , the outcome would be:

- a- peak with amplitude (4cm) b- crest with amplitude (4cm)
c- peak with amplitude(10cm) d- peak with amplitude (10cm)

16- Constructive interference between two waves when the wave length of the two waves is (λ) when the path difference between them :

- a- $2/\lambda$ b- $3\lambda/2$ c- λ d- $\lambda/4$

17- Polarization proves that the nature of light is :

a- longitudinal wave b- particles c- circular wave d- transfer wave

18- Longitudinal waves and transfer waves are similar in all characteristic except in one :

a- polarization b- refraction c- reflection d- interference

19- Refraction through a single slit would be most clear , when the slit is:

a- smaller than the wave length b- bigger than the wave length
c- equal to wave length d- bigger than the amplitude of the waves

20- A string vibrate and produces the shape in the following figure:

The wave of length in the unit (cm):

a- 10 b-20 c- 30 d-15

اختر الإجابة الصحيحة في كل من الفقرات التالية :

- 1- سقطت حزمة ضوئية على مادة شفافة ، فكان معامل انعكاسها يساوي معامل نفاذها ويساوي (0.3) ،
فان معامل امتصاصها يساوي :
0.3 (ا) 0.4 (ب) 0.6 (ج) 0.7 (د)
- 2- (، فإن سقط شعاع ضوئي على سطح مرآة مستوية، فكانت الزاوية بينه وبين سطح المرآة تساوي 30)
زاوية انعكاسه تساوي :
30 (ا) 90° (ب) 60° (ج) 120° (د) °
- 3- أنقل شعاع ضوئي من الوسط (ا) الذي معامل انكساره (1.6) الى الوسط (ب) ، بحيث كانت زاوية
(، فإن معامل انكسار الوسط (ب) يساوي : °) وزاوية الانكسار (53° السقوط) 37
1.2 (ا) 2.1 (ب) 0.75 (ج) 1.33 (د)
- 4- تحدث زاوية الانحراف الصغرى في المنشور الثلاثي عندما تكون زاوية السقوط على الوجه الأول
تساوي زاوية :
(ا) الانكسار عن الوجه الاول (ب) السقوط على الوجه الثاني
(ج) رأس المنشور (د) الخروج من الوجه الثاني
- 5- اسطوانة زجاجية في احد طرفيها تجويف كروي يوجد داخلها وعلى محورها فقاعة تبعد (4) سم عن
قطب التجويف ، ينظر إليها شخص من جهة المحور كما في الشكل ، فتبدو له على بعد (2) سم من
قطبها ، فإذا كان معامل انكسار الزجاج (1,6) ، فان نصف قطر التجويف بوحدة (سم) يساوي :
0.6 (ب) 4 (ا)
2 (د) 6 (ج)
- 6- الأخيلة الناتجة في العدسة المحدبة لا يمكن أن تكون :

- (ب) مصغرة معتدلة
(د) حقيقية ومساوية للجسم
- (ا) حقيقية مقلوبة
(ج) وهمية مكبرة
- 7 يستعمل الساعاتي عدسة محدبة لتكبير أجزاء الساعة ، وذلك عندما يضع الساعة :
- (ب) في مركز تكور العدسة
(د) بين بؤرة العدسة وقطبها
- (ا) في بؤرة العدسة
(ج) بين بؤرة العدسة ومركز تكورها
- 8 عدسة مقعرة بعدها البؤري (ع) ، وضع جسم أمامها على بعد (ع) منها، فإنه :
- (ب) يتكون له خيال مصغر نصف مرة
(د) يتكون له خيال مكبر مرتبين
- (ا) لا يتكون للجسم خيال
(ج) يتكون له خيال مساوي له
- 9 عدسة محدبة الوجهين. نصف قطر تكور كل من وجهيها (6) سم ، مصنوعة من زجاج معامل انكساره (1.5) ، على اعتبار أنها موضوعة في الهواء فإن بعدها البؤري بوحدة (سم) يساوي :
- (ا) 6- (ب) 6 (ج) صفر (د) 9
- 10 يعود سبب إصابة العين بطول النظر إلى:
- (ب) زيادة تحدب عدسة العين
(د) نقصان البعد البؤري لعدسة العين
- (ا) استطالة خلقية في مقلة العين
(ج) ارتخاء في العضلات الهدبية
- ** [2/ ، علماً بأن الثوابت مقاسة بالنظام (2/π) ز +π يتذبذب بندول حسب الاقتران : ص = 4 جا] العالمى للوحدات ، مستخدماً الاقتران السابق أجب عن الفقرتين 11 و 12 .
- 11 إزاحة البندول (بوحدة المتر) عندما ز = 1 ثانية تساوي :
- (ا) صفر (ب) 4 (ج) 2 (د) 1
- 12 تردد البندول (بوحدة الهيرتز) يساوي:

- 1 (د) 0.5 (ج) 0.25 (ب) 4 (ا)
- 13- (ينتشر الضوء من مصدره بشكل موجات كروية، وكل نقطة على سطح هذه الموجات تعمل وكأنها مصدراً ضوئياً جديداً يبعث موجات ثانوية). هذا هو نص مبدأ :
- 1 (فيرما (ب) غاليليو (ج) نيوتن (د) هويغنز
- 14- عند عبور موجة مائية من وسط عميق الى وسط ضحل، فإن الخاصية الموجية التي لا تتغير هي :
- (ا) الطول الموجي (ب) السرعة (ج) التردد (د) اتجاه الانتشار
- 15- تتحرك قمة الموجة (س) نحو اليمين باتساع قدره (3) سم ، وتقابل قاع موجة (ص) تتحرك نحو اليسار باتساع قدره (7) سم ، فإنه لحظه عبور أحدهما الأخرى ينشأ :
- (ا) قمة باتساع (4) سم (ب) قاع باتساع (4) سم
(ج) قمة باتساع (10) سم (د) قاع باتساع (10) سم
- 16- (عندما يكون فرق المسار بينهما λ يحدث التداخل البناء لموجتين ، الطول الموجي لكل منهما) يساوي :
- $\lambda/4$ (د) $\lambda/2$ (ج) $\lambda/2$ (ب) 3λ (ا)
- 17- الاستقطاب يثبت أن للضوء طبيعة :
- (ا) موجية طولية (ب) جسيمية
(ج) موجية دائرية (د) موجية مستعرضة
- 18- تتشابه الموجات الطولية والموجات المستعرضة في جميع الخصائص الآتية عدا واحدة هي :
- (ا) الاستقطاب (ب) الانكسار (ج) الانعكاس (د) التداخل
- 19- يكون الحيود عبر شق في حاجز أوضح ما يمكن عندما يكون عرض الشق:

(أ) اصغر بكثير من الطول الموجي
(ب) اكبر بكثير من الطول الموجي
(ج) مساوياً الطول الموجي
(د) اكبر من اتساع الموجة

20- تذبذب وتر آلة موسيقية طوله (30) فنتج عنه النمط الموجي المبين في الشكل، فان طول الموجه المتذبذبه بوحدة(سم) هي :

(أ) 10
(ب) 20
(ج) 30
(د) 15

Appendix 23: Counterpart Training Schedule in Japan

Date		AM	Time		PM	Time	
28-Feb	Sat						
1-Mar	Sat	Departure from Jordan					
2-Mar	Sun	Arrival in Japan					
3-Mar	Mon	Meeting with PADECO	12:00		Briefing(TIC)	15:00~	
4-Mar	Tue	Tokyo Institute of Technology The Center for Research And DeveLopment of Educational technology Akahori lab.	10:00-11:30	http://www.ak.cradle.titech.ac.jp/	National Institute for Educational Policy Research/ National Informaiton Center for Educational Resources	14:00-16:30	http://www.nier.go.jp/homepage/kyoutsuu/index.html http://www.nicer.go.jp/
5-Mar	Wed	JAPET Japan Association for Promotion of Educational Technology	10:00-11:30	http://www.japet.or.jp/eng/engguide.htm	Tokyo Shoseki Co.,Ltd	14:00-16:30	http://www.tokyo-shoseki.co.jp/flash_content/index.html
6-Mar	Thu	Junior High School at Otuska, University of Tsukuba	10:00-12:00	http://www.tsukuba.ac.jp/index_e.html	Hitach Electoronics Services Co, Ltd	14:30-16:00	http://www.hitachi-densa.co.jp/english/index.htm
7-Mar	Fri	Free			Annual conferece of Center for Eucational Computing	13:00~	http://www.cec.or.jp/
8-Mar	Sat	day off			day off		
9-Mar	Sun	An international education symposium (Waseda University)	9:30~		day off		
10-Mar	Mon	Kasiwa City Board of Education & Public school	10:00	http://www.city.kashiwa.chiba.jp/foreign/foreign.htm	Non-Profit-Organization Kashiwa Internet Union Reitaku High School		http://www.kiu.ad.jp/ http://www.reitaku-u.ac.jp/eng/page/E/index.htm
11-Mar	Tue	Seishin Joshi Gakuin	10:00-11:30	http://www.tky-sacred-heart.ed.jp/English/eindex.html	NHK Nippon Hoso Kyokai (Japan Broadcasting Corporation)	14:00-16:00	http://www.nhk.or.jp/english/top/
12-Mar	T	Transfer (Tokyo> Osaka)			Osaka Kyoiku University Tanaka lab.	14:00-16:30	http://www.osaka-cu.ac.jp/index_e.html
13-Mar	Thu	Hyougo Prefectural Board of Education	10:00	http://www.hyogo.ed.jp/~board-bo/index.html	Hyougo Prefectural Board of Education		http://www.hyogo.ed.jp/~board-bo/index.html
14-Mar	Fri	Osaka City Univ Tamura lab.	10:00-11:30	http://www.osaka-cu.ac.jp/index_e.html	JEARN	14:00-16:30	http://www.jearn.jp/eng/index.html
15-Mar	Sat	Tour around Kyoto			Tour around Kyoto		
16-Mar	Sun	Transfer (Kyoto> Tokyo)			day off		
17-Mar	Mon	Tokyo Metropolitan Institute for Education of Technology	10:00-11:30	http://www.techno-kyoiku.metro.tokyo.jp/	Free		
18-Mar	Tue	Uchida Yoko Co, LTD	9:30-11:00	http://www.uchida.co.jp/english/index.html	NIME National Institute of Multimedia Education	13:30~15:00	http://www.nime.ac.jp/index_e.html
19-Mar	Wed	ALIC:Advanced Learning Infrastructure Consortium	10:00-11:30	http://www.alic.gr.jp/eng/alic/prospectus.htm	Free		
20-Mar	Thu	CEC:Center for Educational Computing	10:00-11:30	http://www.cec.or.jp/	(PADECO) Museums in Tokyo		
21-Mar	Fri	National Museum of Emerging Science and Innovation	10:00-11:30	http://www.miraikan.jst.go.jp/en/index.html	Odaiba area(Telecom Center, Fuji TV)		
22-Mar	Sat	day off			day off		
23-Mar	Sun	day off			day off		
24-Mar	Mon	JICA	10:00~	http://www.jica.go.jp/english/index.html	Video conference(JICA-NET)	16:00-17:00	
25-Mar	Tue	Fujitsu Learning Media Ltd, Co.	10:00-11:30	http://www.flm.fujitsu.com/en/index.html	PADECO		
26-Mar	Wed	Showa women's University	10:00-11:30	http://www.swu.ac.jp/index.html	TIC meeting		
27-Mar	Thu	Departure from Japan					
28-Mar	Fri				Arrival in Jordan		

Wave Generator

Jordan Physics Digital Material Development

Chapter 9 (v)

Chapter 10

- Oscillatory motion as a pattern of motion
- Simple harmonic motion in simple pendulum
- Relation of simple harmonic motion to uniform circular motion
- Wave Motion
- Characteristics of mechanical waves
- Reflection and refraction
- Properties of waves "interference"
- Standing waves
- Interference of light waves
- Diffraction of waves
- Diffraction of light waves
- Polarization of light
- Polarization of light by reflection

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Properties of waves "interference"

Interference of water waves

Interference

- Interference of waves
- Interference of light waves
- Diffraction of waves
- Diffraction of light waves
- Polarization of light
- Polarization of light by reflection

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Relation of simple harmonic motion to uniform circular motion

The general formula for the displacement of an object moving in SHM can be represented by the following formula:

$$y = A \sin(\omega t)$$

1. The vertical displacement (y) for an vibrating body moved from the equilibrium can be represented by the following formula:

$$y = A \sin(\omega t)$$

2. If the body starts moving from any point different from the point of equilibrium, the displacement (y) can be represented by the following formula:

$$y = A \sin(\omega t + \phi)$$

where ϕ is the angle which defines the condition of waves beginning. And this angle is called the phase constant ($\omega t + \phi$): phase angle.

eye-check - Microsoft Internet Explorer

prism - Microsoft Internet Explorer

α_1	β_1	β_2	α_2	δ
39	24.8	59.8	35.1	38.8

The angle of refraction on the second face, calculated from:

$$\beta_2 = 90^\circ - \beta_1 + \alpha_1$$

where $n_1 = 1$ for the air, $n_2 = 1.5$

JICA

Jordan Physics Digital Material Development

Chapters 9

- Reflection and absorption of light
- Transmission of light
- Refraction of light
- Angle of minimum deviation in a prism and dispersion of light
- Reflection at spherical surfaces between two transparent media
- Lenses
- Show a lens works as a prism
- Use ray-tracing to find the focal length of a convex lens
- Measurement of the focal length of a concave lens
- Application of optical properties of matter

Chapter 10 (v)

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Collaboration

Measurement of the focal length of a concave lens

Procedure:

- Place the light card at focal length, so the image is inverted
 - Measure the distance and find the focal length
 - Put the concave lens then measure the image is considered
 - Move the screen up between the screen
 - Apply the relation
- The focal length of

lesson1 - startm - Microsoft Internet Explorer

Measurement of the focal length of a concave lens.

Jordan Physics Digital Material Development

Chapter 9 (v)

Chapter 10

- Oscillatory motion as a pattern of motion
- Simple harmonic motion in simple pendulum
- Relation of simple harmonic motion to uniform circular motion
- Wave Motion
- Characteristics of mechanical waves
- Reflection and refraction
- Properties of waves "interference"
- Standing waves
- Interference of light waves
- Diffraction of waves
- Diffraction of light waves
- Polarization of light
- Polarization of light by reflection

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Properties of waves "interference"

Questions - Exercise 2

Two waves interfere; the first is represented by the function $y_1 = 8 \sin\left(\frac{5\pi}{2} t\right)$, and the other by the function $y_2 = 60 \sin\left(\frac{3\pi}{2} t + \pi\right)$. Both waves were generated at the same time. Where the displacement measured in cm:

Answer the following questions:

- The phase difference between the two waves after the passage of 2 seconds
- The phase difference between the two waves after the passage of 4 seconds
- The displacement of the resultant wave 1 second after its generation is
- The displacement of the resultant wave 2 second after its generation is

1- The interference Type your answer

Solution

The answer is:

the phase angle of the first wave = $\frac{5\pi}{2} \cdot 1 = \frac{5\pi}{2} \times 2 = 5\pi$

the phase angle of the second wave = $\frac{3\pi}{2} \cdot 1 + \pi = \frac{3\pi}{2} \times 2 + \pi = 4\pi$

the phase difference = $5\pi - 4\pi = \pi$

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