

MASENO UNIVERSITY UNIVERSITY EXAMINATIONS 2013/2014

THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE DEGREE OF BACHELOR OF ARTS (INTERIOR DESIGN) WITH INFORMATION TECHNOLOGY

(MAIN CAMPUS)

ADI 305: LIGHTING AND ACOUSTICS

Date: 4th April, 2014

Time: 8.30 - 10.45 a.m.

INSTRUCTIONS:

- Answer ALL the questions from Section A in the answer booklet provided. (40 marks)
- Answer ANY THREE questions from Section B. (30 marks)

SECTION A (40 MARKS)

Answer ALL the questions in this section

Q1	l. a)	Briefly analyze the importance of light in relation to mood and atmosphere of the interior space. 4mkg	
	b)	List the values of light as an element of design in the interior space. 2mkg	
Q2.	. a)	Mention at least Three factors that are related to visual comfort	
	b)	Identify positive responses that are significant in improving visual condition. 3mks 6mks	
Q3.	a)	Giving examples, explain the following terminologies as applied in lighting:-	
		i) Artificial light ii) Natural light 4mks	
	b)	Briefly elucidate any Two merits and demerits of the following light sources:-	
		i) Florescence ii) Incandescence 8mks	
Q4.	a)	In your own words, briefly discuss how sound is caused in the Environment. 6mks	
	b)	Analyze Three elements that can be used to solve noise problem	
		in a given space. 4½ mks	
	c)	Illustrate the propagation of sound wave from the source to	

2½ mks

listener in millennium hall.

SECTION B (30 MARKS)

Answer ANY THREE questions in this section.

- Q5 a) Give the reason of having glare in an interior space. 3mks
 - Discuss the impact of location and direction on light in a residential building. 7mks
- Q6. You have been commissioned to design structural lighting in a given home, critically explain the procedures you would follow. 10mks
- Q7. Examine the negative effects you would face when living near a shooting range. 10mks
- Q8. Critically analyze the most suitable ways of controlling hazardous noise in an environment. 10mks.