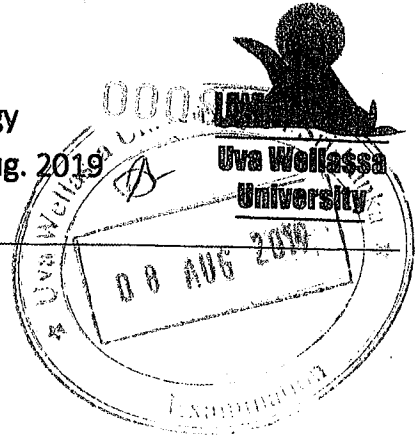


Uva Wellassa University of Sri Lanka  
Faculty of Applied Sciences  
Department of Science and Technology  
400 level 1<sup>st</sup> Semester Examination – Jul./ Aug. 2019  
SCT 491-1 Green Techniques



**Instructions to candidates**

Duration: One (01) hour

Number of questions: Five (05) Structured essay

Answer all the questions.

Mark allocation: 100

Index No.

1. a. Give a brief definition for "Green Techniques".

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.....  
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.....  
.....  
.....  
.....

(3 mark)

b. Write five (05) benefits of Green Techniques.

i. ....  
ii. ....  
iii. ....  
iv. ....  
v. ....

(5 mark)





2. a. What is a pollution?

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.....

(2 mark)

b. List six (06) results of environmental pollution.

i. ....

ii. ....

iii. ....

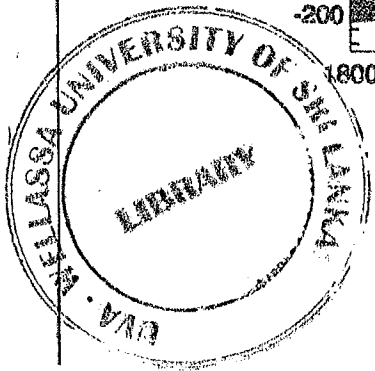
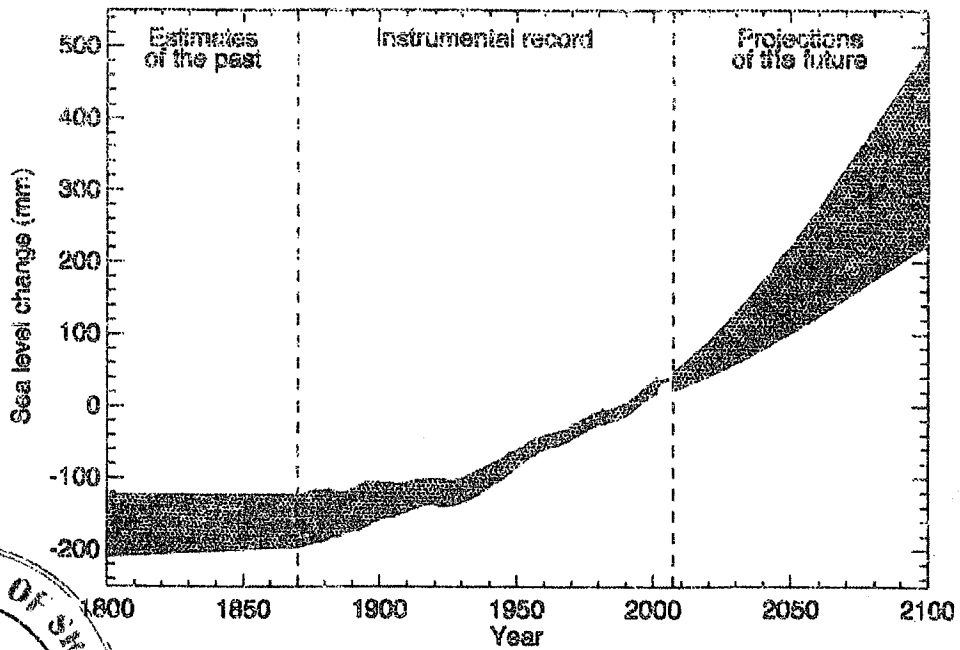
iv. ....

v. ....

vi. ....

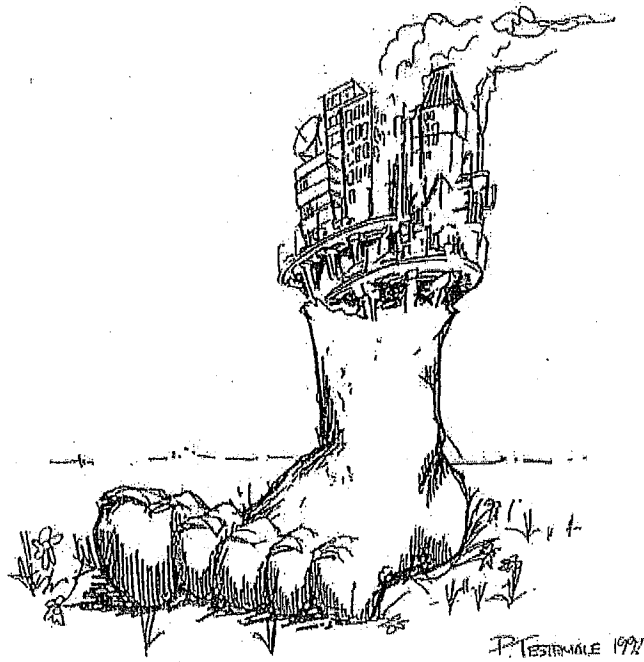
(6 mark)

c. Explain social and environmental impacts associated with the phenomenon given in the following figure. Give relevant examples.





3. a. Explain the ecological concepts behind following figures.  
i.



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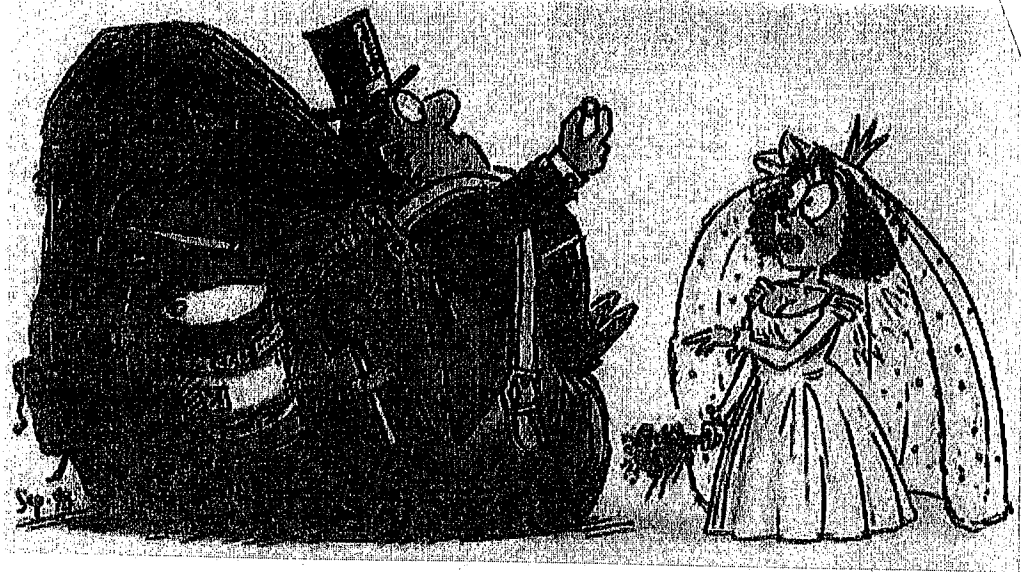
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(5 mark)



ii.



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(5)

b. Explain the carbon footprint.

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(10 mark)

4. Explain the following economic concepts.

a. Materials Intensity Per Service unit (MIPS)

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(5 mark)

b. i. Factor 4

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(5 mark)

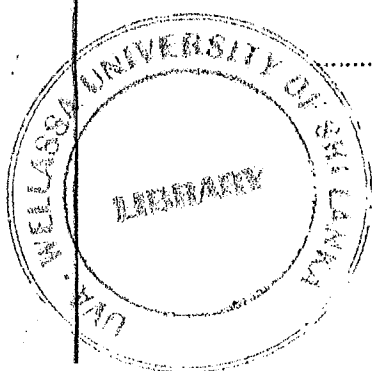
ii. Factor 10

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.....

.....

(5 mark)



iii. Factor x

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.....  
.....

(5 mark)

5. a. As a global community, all of us suffer from environmental issues that resulted because of the industrialization. Thus multinational organizations like United Nation's Environment Programme (UNEP) were formed to find out solutions to protect our environment. List three reactions/actions taken by multinationals for following i, ii, iii, and iv.

i. 70's

A. ....  
B. ....  
C. ....

ii. 80's

A. ....  
B. ....  
C. ....

iii. 90's

A. ....  
B. ....  
C. ....

iv. New Millanum

A. ....  
B. ....  
.....

(12 mark)



b. Explain the terms, use, overuse, misuse and abuse of environmental resources in the context of green technology.

i. use

.....  
.....

ii. overuse

.....  
.....

iii. misuse

.....  
.....

iv. abuse

.....  
.....

(8 mark)

