



Uva Wellassa University of Sri Lanka  
1<sup>st</sup> Semester Examination – February/March 2012  
BGE 231-3 / SCT 101-3  
Biology, Chemistry and Environmental Science



Time: 45 minutes

Index Number:

Part – C

Answer three (03) questions from Part – C

1. a. Name two DNA viruses and two RNA viruses (04 marks)  
b. Discuss the living and non living characters of viruses (08 marks)  
c. Briefly explain the lytic cycle (18 marks)
  
2. a. Write a short account on “acid rain” (15 marks)  
b. Answer only one part from the following  
i. Briefly explain one of the corrosion prevention methods.  
ii. Discuss the effects of “polluted water” on living beings such as humans and animals. (15 marks)
  
3. a. Explain the structure of a surfactant molecule, Use illustrations where necessary (10 marks)  
b. Explain how a greasy dirt patch in a cloth can be removed using soap (10 marks)  
c. Write a short account on any one of the following topics  
i. Biomolecules  
ii. Polymers (10 marks)
  
4. a. Explain the stages of a typical life cycle of a biological resource. Use only a flow chart to answer this question. (15 marks)  
b. Straw is a biological resource which is used as a raw material during the production of paper. How can it be utilize in a sustainable manner when it is going through a typical life cycle? (15 marks)
  
5. Discuss the ecological and economical consequences if, we ever destroy Sinharaja forest, our only primeval rain forest in the lowland. (30 marks)