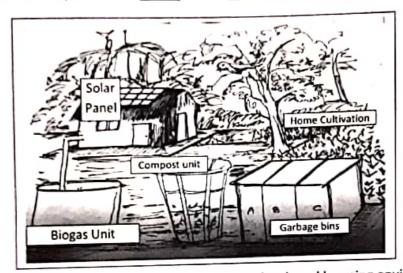


Part A

- Answer the <u>four</u> questions in part A, in the space provided
- Of the five questions in <u>Part B</u> answer <u>three</u> questions only.

01.



 A) Given above is a diagram of a garden which is developed by using environment 	al management.
i) Write two examples to show the garden developed in a environmental friendly i	manner (Marks 2)
ii) Write two advantages of using compost(carbonic fertilizer) in the garden	(Marks 2)
(iii) Vessel C, is used to collect plastic & polythene. Write suitable labels for vessel A	A & B. (Marks 1/2X 2)
(iv) Write down two renewable energy resources which are used in the above figur	
(v) Food mileage could be minimized by the cultivation of all the crops which are notice one advantage of that.	eed to house. State (Marks 1)
(vi) What type of microorganism is used to produce bio gas?	(Marks 1)
(B) Follwing food chain can be seen in the above garden. plants ————————————————————————————————————	(Marks 1)

1

(ii)100000J of energy contain in plant leaves. Calculate the energy flow to the eagle	(Marks 1)
(iii)To which biological process waste the higher percentage of energy in energy dissipation	(Marks 1)
(C) (i) How does is biological fixation occurred in Nitrogen cycle?	(Marks 1)
(ii) Green colour algae layer is grown on the surface of a reservoir because of a chemical corproduced in industrial fixation. What is the name given to that process?	mpound (Marks 1)
(iii) Among the Psudomonas & Nitrobacter, name the denitrification bacteria?	(Marks 1)
(iv) What is the reason for leguminous plants grow even in soil lack in nitrogen?	(Marks 1)
O2. Underground stem of Potato and typical flower are shown as A and B respectively in the (A) (A) (Potato)	diagram.
(i) Name the underground stem in potatoes (M	arks 1)
(ii) Write two differences between vegetative propagation and propagation occurs using a f	lower (Marks 2)
(iii) What type of cell division is occurred in part "a" in the flower? (M	arks 1)
major notation in potential	arks 1)
(v) What type of tissue could be seen in a piece of potato under light microscope? (M	arks 1)
(B) Select the suitable letter of invertebrate a to d according to the characteristics given be	low.
(a) (b) (c) (d)	
(i) All are marine(ii) Show different morphological forms	
(ii) Show different morphological 2	

(v) Locomotion occurs in using tube feet	(Marks 1x 5)
(C) (i) What is the apparatus in this picture?	F((Z) -
(Marks 2)	// Jp
(ii) Write two protective method that should be taken when it used	* -
(Marks 2)	1
A) The attractive forces are placed among the atoms or ions, resulted by the rea	rrangement of
electrons in the valence shell, for stabilising the atoms of elements. (i) What is the common name of these attractive forces?	(Marks 1)
(ii) Atomic number of X is II. Write the ionic half equation to form cation from x a	atom. (Marks 1)
(iii) What is the type of chemical bond present in X atom with Cl atom? (Cl = 17	7) (Marks 1)
(iv) Write two physical characteristics of the compound, which is formed in the r with Cl.	
	(IVIATKS 2
(v) In the given box, draw the Lewis structure of molecule, which is formed with the combination of Carbon and Chlorine (C= 6, Cl= 17)	
which is formed with the combination of Carbon and Chlorine (C= 6, Cl= 17)	poratory.
which is formed with the combination of Carbon and	poratory.
which is formed with the combination of Carbon and Chlorine (C= 6, Cl= 17) (B) Following figures of 3 apparatus are used to prepare 100cm³ of gas in the late to be a second of the late	ooratory. (Marks 1)
which is formed with the combination of Carbon and Chlorine (C= 6, Cl= 17) (B) Following figures of 3 apparatus are used to prepare 100cm³ of gas in the late of	(Marks 1)
which is formed with the combination of Carbon and Chlorine (C= 6, Cl= 17) (B) Following figures of 3 apparatus are used to prepare 100cm³ of gas in the late of	(Marks 1) (Marks 1)

