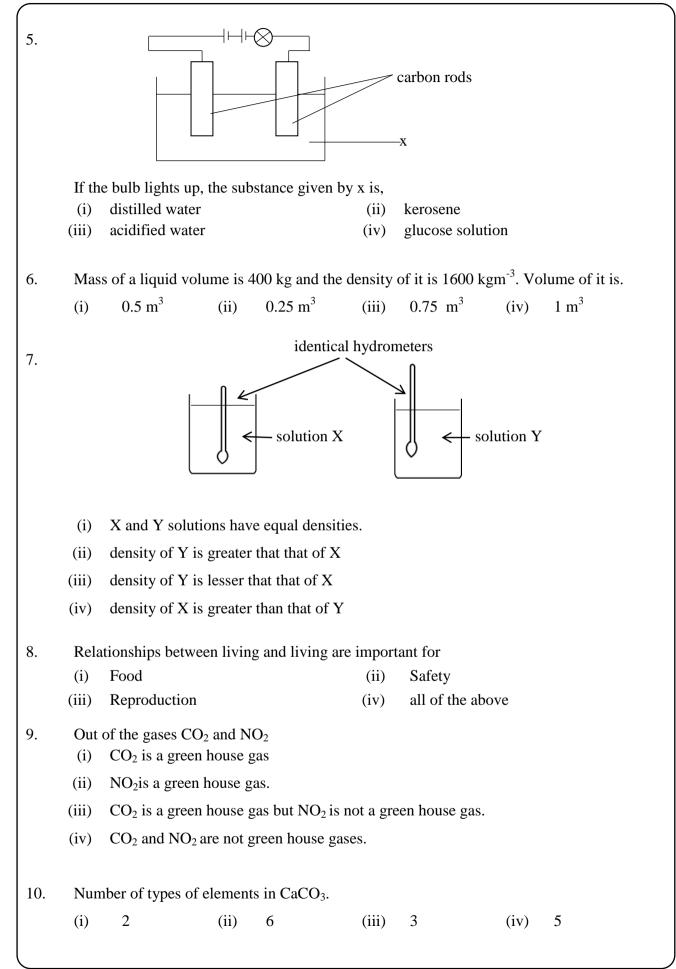
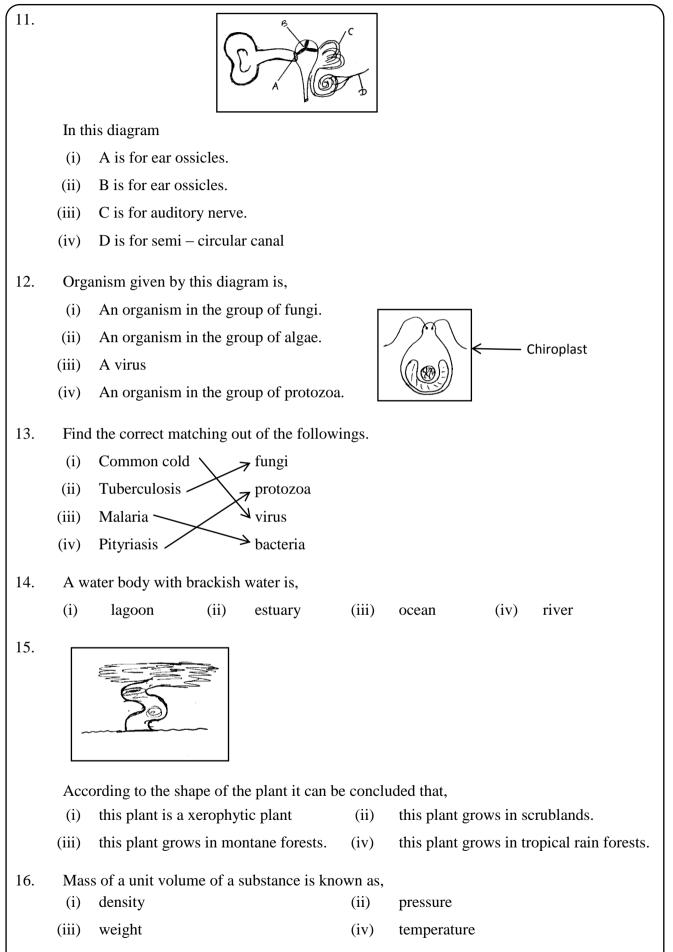
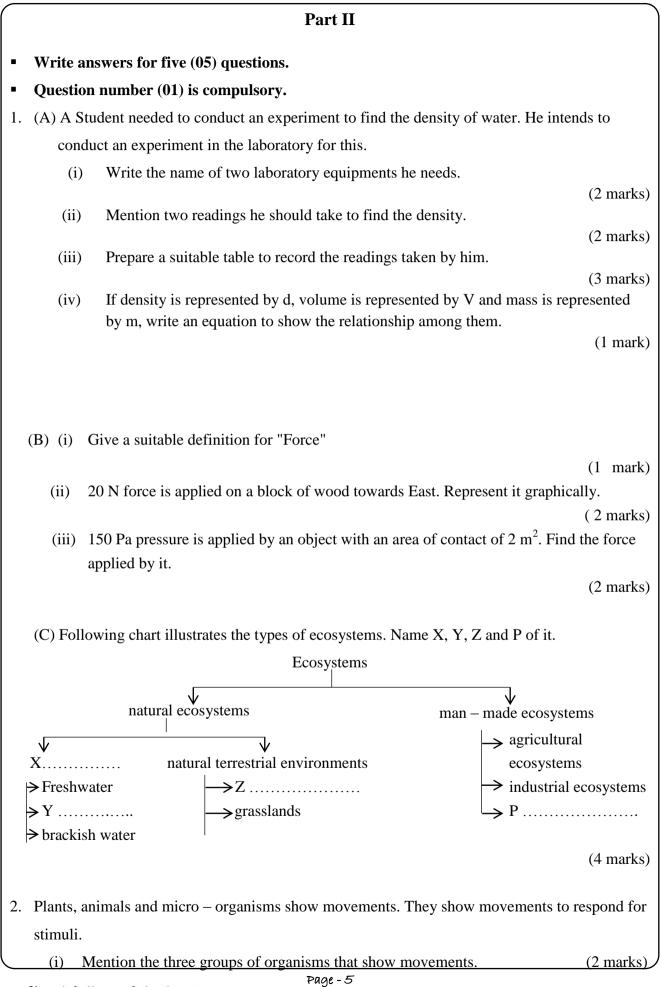
| PLORE AT   | <b>Royal College - Colombo 07</b><br>රාජකීය විදහාලය - කොළඹ 07  |                             |  |               |  |  |
|--|--|-----------------------------|--|---------------|--|--|
|  | Grade 9 – Second Term Test – July 2019<br>දෙවන වාර පරීකෂණය - 2019 ජුලි - 9 ශෝණිය<br>කාලය : පැය 2<br>Time : 2 hours                                   |                             |  |               |  |  |
| Science<br>විදාහාව<br>Name : Grade : Index number:                       |  |                             |  |               |  |  |
| Part I   |  |                             |  |               |  |  |
| • Underline the co   | orrect or most suitable ans  | wer for e                   | ach of the following qu  | estion.       |  |  |
| <ul><li>(i) Trans</li><li>(ii) trans</li><li>(iii) performance</li></ul> | n of red blood cells is<br>port carbondioxide to body o<br>port oxygen to body cells.<br>rm the body defense mechan<br>ng a blood clot and prevent o | ism.                        | ing.   |               |  |  |
| 2.<br>(i) auxins<br>(iii) Indole   | Diagram illustra<br>sunlight. Substa   |                             | ending of an apical bud<br>a as x is,<br>water<br>Gibberellins             | towards the   |  |  |
| 3. Following di  | agram illustrates the growth   | of a plant                  | which had fallen on the  | e ground.     |  |  |
| 1 – A  | shows a negative geotropic   | movemer                     | nt   |               |  |  |
|  | shows a positive geotropic r   |                             |  |               |  |  |
|  | shows a positive phototropic   |                             |  |               |  |  |
|  | shows a negative phototropi<br>ment out of the above are,  |                             | ent  |               |  |  |
| (i) 1 and 2  |  | (ii)                        | 1, 2 and 3 only  |               |  |  |
| (iii) 1, 2, 3,   | -  | (iv)                        | 1 and 4 only   |               |  |  |
| (i) Theory of  | which is acceptable on the origon of special creation.   | gin of life<br>(ii)<br>(iv) | e, out of the followings i<br>Theory of spontaneou<br>Theory of biochemica | s generation. |  |  |





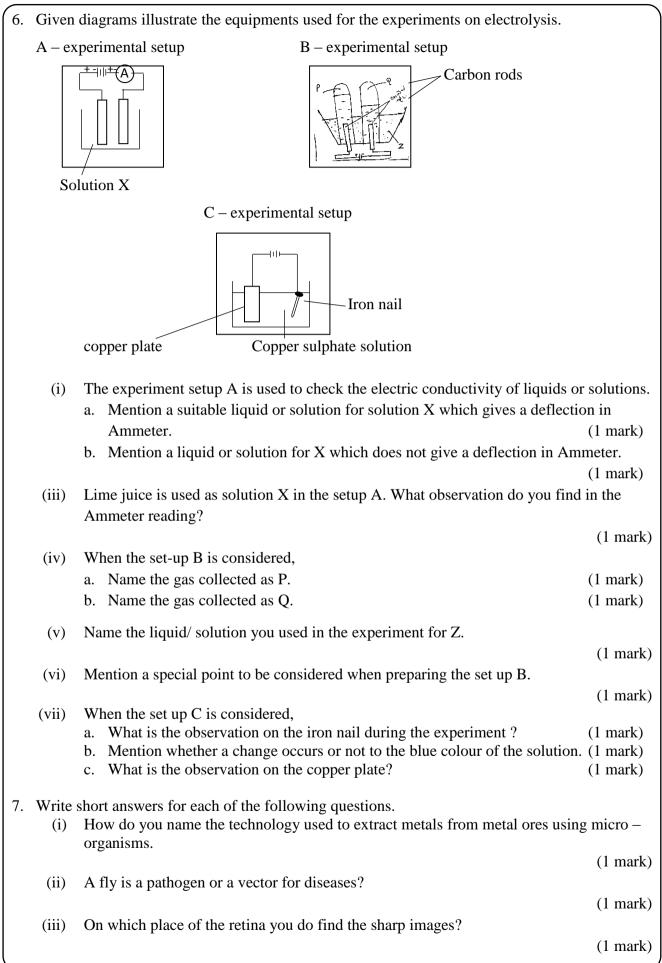
17. Following is a diagram of a model of a human heart. D In this model, A is pulmonary artery. (ii) C is pulmonary veins. (i) B is aorta (iii) E is superior vena cava (iv) 18. In order to apply copper on an iron nail, Iron nail should be connected with positive terminal of the cell. (i) (ii) Copper plate should be connected with negative terminal of the cell. (iii) any salt solution can be used as the electrolyte. (iv) copper plate should be connected to positive terminal and iron nail should be connected to negative terminal of the cell. 19. Out of the followings, a statement which is not related with "green transport " is, minimizing the use of private vehicles. (i) (ii) promote and facilitate the use of hybrid vehicles. (iii) promote the use of vehicles with solar panels or electric cells. (iv) use of vehicles with excessive consumption of fossil fuels. 20. Weight of 20 kg mass is, 200 N (i) (ii) 2000 N (iii) 20 N (iv) 0.2 N  $(2 \times 20 = 40 \text{ marks})$ 



| (ii)   | Define the term 'Movements'  |                       |
|--------|--|-----------------------|
|        |  | (1 mark)              |
| (iii)  | Name X and Y structures which are involved in the movements of verterbrates.   |                       |
|        |  | (1 mark)              |
| (iv)   | y) Write two features of muscles.  |                       |
|        |  | (2 marks)             |
| (v)    | Following diagram illustrates the structures related for bending of hand from the  | e elbow               |
|        | junction.  |                       |
|        | Name A, B, C and D structures. (   | 2 marks)              |
|        |  |                       |
| (vi)   | Write down the changes in A and B when bending the hand.   | (1                    |
| (vii   | Mention the two major types of plant movements.  | (1 mark)              |
|        |  | (1 mark)              |
| (viii) | Provide an example for positive photo tropic movement.   | (1 mark)              |
|        | Name the "first scientific theory" or explanation about the origin of the universe and system.   | d solar               |
| (ii)   | A modern theory on the origin of life explains that "the universe was an energy sou<br>a great energy and giant explosions took place in it". What is the name given for th<br>theory? |                       |
| (iii)  | Name a gas presented in the early atmosphere and a gas originated later which supp combustion and respiration.   | (1 mark)<br>ports for |
| ,      | combustion and respiration.  | (1 mark)              |
| (iv) ] | How old the life originated on the Earth?  |                       |
| (v) ]  | Mention two theories introduced on the origin of life on the Earth.  | (1 mark)              |
| (vi)   | Briefly explain the "Primordial Soup"  | (2 marks)             |
| (vii)  | Provide short answers for each of the following descriptions.  | (1 mark)              |
| :      | a) first form of living organism   |                       |
| 1      | b) first form of autotrophic organism  |                       |
| (      | c) first form of multicellular organism  |                       |
| (viii) | Explain what is meant by a fossil.   | (3 marks)             |

(1 mark)

| $\sim$ |        |   |   |
|--------|--------|---|---|
| (4.    | We fin | nd many different types of ecosystems on the Earth.                           |   |
|        | (i)    | Explain what is meant by an "ecosystem"                                       |   |
|        |        |   | (1 mark)                                |
|        | (ii)   | Name a major type of ecosystem.   | (1 1)                                   |
|        | (iii)  | What is the meaning of an endemic plant species?                              | (1 mark)                                |
|        | (111)  | what is the meaning of an endernic plant species:                             | (1 mark)                                |
|        | (iv)   | The reasons for the biodiversity degradation can be discussed under two topic | , |
|        |        | What are they?  | (2 marks)                               |
|        | (v)    | What are known as bio – diversity hotspots?                                   |   |
|        | (11)   | Explain What is meant by a large n  | (1 mark)                                |
|        | (vi)   | Explain, What is meant by a lagoon.   | (1 mark)                                |
|        | (vii)  | What types of water is available in an estuary?                               | (1                                      |
|        |        |   | (1 mark)                                |
|        | (viii) | Write 2 (two) significances of an oceanic ecosystem.                          | <i>(</i> <b>1 1 )</b>                   |
|        |        |   | (1 mark)                                |
| 5.     | Consi  | der the ${}^{35}_{17}$ Cl atom.   |   |
|        |        |   |   |
|        | (i)    | How many protons are there in it?   | (1 mark)                                |
|        | (ii)   | How many electrons are there in it?   | (T mark)                                |
|        |        |   | (1 mark)                                |
|        | (iii)  | How many neutrons are there in it?  |   |
|        | ()     | Mantion two home staries and two hotens, staries melocules consustaly         | (1 mark)                                |
|        | (iv)   | Mention two homo - atomic and two hetero - atomic melecules separately.       | (2 marks)                               |
|        | (v)    | consider the nucleus of the following atom.                                   | (2 marks)                               |
|        |        | ee c  |   |
|        |        | e $P = 10$ $e$ nucleus $n = 11$   |   |
|        |        | a. What is its atomic number?   | (1 mark)                                |
|        |        | b. What is its mass number?   | (1 mark)                                |
|        | (vi)   | Mention two homogeneous and two heterogeneous mixtures separately.            | () marks)                               |
|        | (vii)  | Write down a suitable method to separate the components of each of the follo  | (2 marks)<br>owing                      |
|        |        | mixtures.   |   |
|        |        | a. separating dead seeds from paddy seeds.                                    | (1 mark)                                |
|        |        | b. extraction of cinnamon oil from cinnamon leaves.                           | (1 mark)                                |
|        |        |   |   |



| (iv)   | Convex lenses with relatively high focal distance have high curvature or low curvature? |
|--------|---|
|        | (1 mark)  |
| (v)    | External ear lobe is a muscular structure or cartilaginous structure or bony structure? |
|        | (1 mark)  |
| (vi)   | Name a chemical substance which is yellow colour and crystalline.                       |
|        | (1 mark)  |
| (vii)  | What is the weight of 100 g mass?   |
|        | (1 mark)  |
| (viii) | In a body organ, which type of blood vessel provides necessary materials to cells and   |
|        | receives waste materials from the cells?  |
|        | (1 mark)  |
| (ix)   | Name the structure used by earthworm for the locomotion.                                |
|        | (1 mark)  |
| (x)    | Give an example for positive thigmotropic movement.                                     |
|        | (1 mark)  |
|        |   |