

14 Part of the interior structure of the earth which has the highest temperature is,
 (1) loamy soil (2) clayey soil (3) sandy soil (4) reddish soil

15 The most suitable soil for cultivation is,
 (1) loamy soil (2) clayey soil (3) sandy soil (4) reddish soil

16 Distance from sun to earth in kilometeres is,
 (1) 1427 millions (2) 58 millions (3) 778 millions (4) 150 millions

17 The largest planet of the solar system is,
 (1) Mars (2) Saturn (3) Jupiter (4) Urenus

18 The way of transmitting heat through solid substances is,
 (1) Convection (2) radiation (3) conduction (4) all above

19 An instance where sublimation takes pace is,
 (1) heating wax (2) heating a strip of magnesium
 (3) heating iodine (4) heating ice

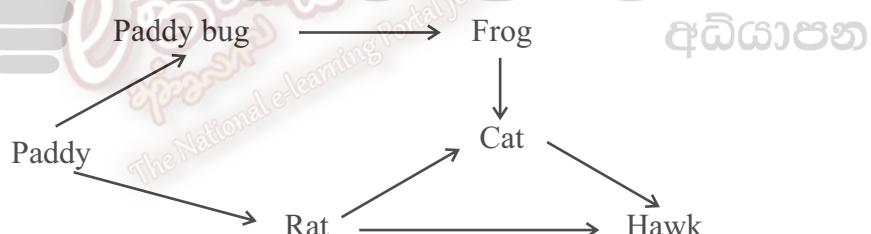
20 Melting point of water is,
 (1) 0°C (2) -10°C (3) 100°C (4) -273°C

$(2 \times 20 = 40)$

PART - II

- **Answer 04 questions only.**

01 A man interaction can be seen in biotic world for the survival of living beings is inter - relationship among organisms. One of them based on food is given below. Using a diagram.



(i) what is the name of above diagram? (01m.)

(ii) write a food chain within 3 links given here. (02m.)

(iii) using the food chain you have written,
 (a) name the first dependant. (b) name the producer.
 (c) name a carnivore. (03m.)

(iv) How does name the relationships can be seen between organisms mentioned below.
 (a) Apid and ant (b) Dear and leopard
 (c) Cattle and tick (03m.)

(v) (a) What is camouflage ? (02m.)
 (b) Name two animals which show camouflage. (02m.)

(vi) Write are the two methods of weathering of rocks? (02m.)

02 (i) Name 4 systems of human body except respiratory system. (02m.)

(ii) Name main 4 parts of human respiratory system. (02m.)

(iii) In which part of the above, the structure alveoli can be seen? (01m.)

(iv) What is the main function of this system? (01m.)

(v) An unnecessary excretory of substance of the body is removed by respiratory system. What is that excretory substance? (01m.)

(vi) What is the system of human body which is important for breeding their kind? (01m.)

(vii) Name the two basic systems can be seen in a plant. (02m.)

(viii) What is the tissue which does transport food in a plant? (01m.)

(ix) What is the reproductive structure which adapted for sexual reproduction of a plant? (01m.)

(x) Write a plant that has each of roots given below.

(a) Air roots (b) Profroots (c) Clasping roots (03m.)

03 Everything in the environment around us can be categorized as matter and energy. Matter is in various states. Man uses matter in various ways to fulfill their needs.

(i) Mention 02 basic characteristics of matter. (02m.)

(ii) What is known as a homogeneous mixture? (02m.)

(iii) Write down an example for each homogeneous mixture and heterogeneous mixture. (02m.)

(iv) What are known as elements? (01m.)

(v) Name 2 elements you know. (01m.)

(vi) Blue coloured aqueous Copper Sulphate 'Cristals' were heated in a boiling tube.

(a) What is the observation can be seen? (01m.)

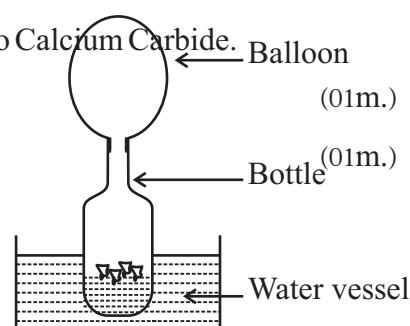
(b) Write the name of the substance formed after heating in the tube. (01m.)

(vii) A chemical reaction takes place when put water to Calcium Carbide.

(a) What is the gas forms here? (01m.)

(b) Write a use of that gas. (01m.)

(viii) Following diagram shows a set of apparatus prepared by a group of students in order to fill Hydrogen gas into a balloon.



04 (i) Following is a regular solid. Calculate its volume. (02m.)

(ii) If you are given to find the volume of an irregular solid object, mention 3 equipments you have to supply from laboratory for that. (03m.)

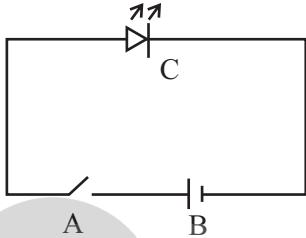
(iii) Write down the equation used to find the density of a substance. (01m.)

(iv) What is meant by relative density? (02m.)

(v) Find the relative density of iron, if the density of iron is 7900Kgm^{-3} and that of water is 1000Kgm^{-3} . (02m.)

(vi) What are known as electrical conductors? (01m.)

(vii) Name two electronic elements produced by using semi conductor substances. (01m.)

(viii)  Name the parts A, B, C of this circuit. (03m.)

05 (A) Substances used at home can be categorize as acidic, basic and neutral according to their chemical nature.

(i) Name,

- (a) an Acidic substance.
- (b) a basic substance and.
- (c) a neutral substance used at home. (03m.)

(ii) Name 2 indicators used to identify acids and bases in laboratory. (02m.)

(iii) Name two juices of plants used to identify acids and bases separately. (02m.)

(iv) Name the acid contains in following substances used at home.

- (a) Lemon
- (b) Grapes (02m.)

(B) (i) Electrostatic charges are mainly in 2 types. Name those 2 types. (02m.)

(ii) What is the instrument used to identify electrostatic charges? (02m.)

(iii) Name the instrument used to prevent from accidents caused by lightning. (02m.)

