



Zonal Education Office – Jaffna

Third Term Examination – 2018

Grade - 7

Science

Time :- 2.00 Hours

Index No :-

Part – I

❖ Answer the all question.

01. Which leaf has reticulate venation?

- 1) Grass 2) Bamboo 3) Shoe flower 4) Arecanut

02. Which type of adventitious root is present in beans?

- 1) Stilt root 2) Roots with root nodules
3) Climbing root 4) Respiratory root

03. A phenomenon not associated with static electricity

- 1) Wind blowing
2) Lightning
3) Emitting 'tic' sound when ironing clothes
4) Attraction of hair on the arm towards the TV screen

04. The source of electricity is

- 1) Dram 2) Flute 3) Fire wood 4) Dynamo

05. The process of producing food in plants using sun light is called as

- 1) Transpiration 2) Photosynthesis
3) Guttation 4) Respiration

06. Which type of energy obtained from sun to the earth,

- 1) Sound energy, Light energy
2) Heat energy, Sound energy
3) Chemical energy, Magnetic energy
4) Light energy Heat energy

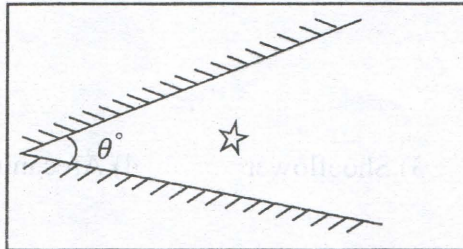
07. Which layer of atmosphere consists of many gases?

- 1) Troposphere 2) Stratosphere 3) Mesosphere 4) Thermosphere

08. In which earth layer mountains, and plains are found

- 1) Outer core 2) Inner core 3) Mantle 4) Earth crust

09.



When increase the angles between two plane mirrors the number of images formed is

- 1) No change 2) Decrease
3) Increase 4) Gradually decrease then increase

10. Which mineral sand is used in the production of electronic equipments?

- 1) Mica 2) Graphite 3) Caolin 4) Dolomite

11. Vitamine B deficiency disease is

- 1) Goiter 2) Scurvy 3) Pellagra 4) Rickets

12. What is the magnification power, when observing object through the eye piece ($\times 15$) and objective piece ($\times 40$)

- 1) $15 + 40 = 55$ 2) $15 \times 40 = 600$
3) $40 - 15 = 25$ 4) $40 \div 15 = 2.66$

13. The chemical substance that used to identify the starch

- 1) Benedict solution 2) Fehling's solution
3) Biurette solution 4) Iodine solution

14. The renewable energy source is

- 1) Natural gas 2) Wind power
3) Fossil fuel 4) Nuclear power

15. The soil that is used to make bricks, tiles and ceramics is

- 1) Clay soil 2) Sandy soil 3) Loamy soil 4) All the above

16. Which quantity has magnitude only?

- 1) Force 2) Displacement 3) Distance 4) None of the above

17. Sea breeze and land breeze occur because of the phenomenon of

- 1) Convection 2) Conduction 3) Radiation 4) All of the above

18. The colour change was observed when soap added to white dress with yellow stain. The incorrect statement is

- 1) Soap is an indicator 2) Turmeric is an indicator
3) Soap is a base 4) Red colour was observed

19. Incorrect statement regarding the clinical thermometer is

- 1) Used to measure body temperature
2) Has wide temperature range.
3) There is a fine bend in capillary tube
4) Should wash with antiseptic solution before use

20. Which order correctly denote the colour of bins that used to collect the following wastages

Plastic	Paper	Glass	Metal	Organic wastages
---------	-------	-------	-------	---------------------

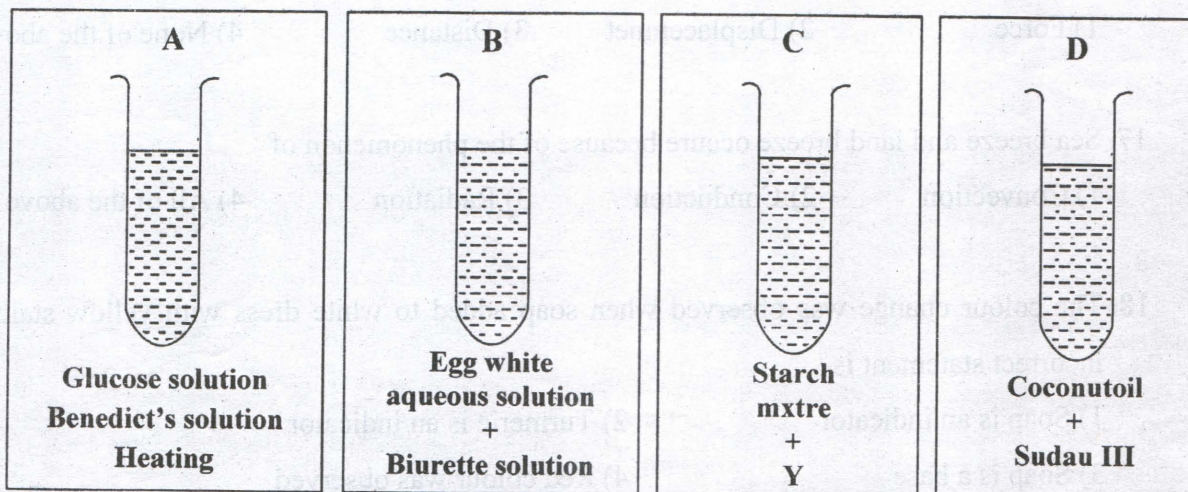
- 1) Red, Blue, Orange, Brown, Green
2) Orange, Blue, Red, Brown, Green
3) Brown, Blue, Orange, Green, Red
4) , Orange, Green, Red, Brown Blue,

(20x2=40 marks)

Part - II

01. A practical set designed in order to identify the nutrients in food.

A) Is given below?



i) Fill in the chart

Test tube	Colour change
A
B
C
D

(3 marks)

ii) People having which disease are identified using the experiment performed in test tube A?

.....

(1 mark)

iii) Which is the nutrient present in egg white?

.....

(1 mark)

iv) Which chemical substance (Y) was added to the starch mixture contained in test tube?

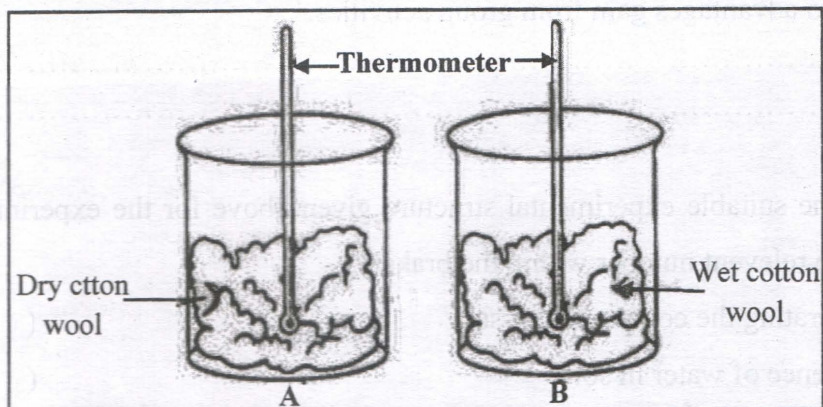
.....

(2 mark)

v) To identify which nutrient, was test D performed?

.....(1 mark)

B)



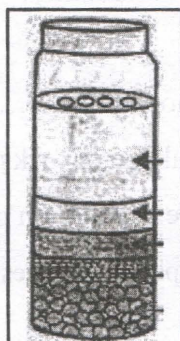
- i) Which characteristic of water is tested through the above activity?
.....
(2 marks)
- ii) What will be your observation in B, after a few minutes?
.....
(1 mark)
- iii) State a instances where the above character of water is used.
.....
(1 mark)
- iv) Give 2 instances where the dissolving ability of water is being used in our day – to – day life.
.....
(2 marks)
- v) Name 4 aquatic organisms
1) 2)
3) 4)
(2 marks)

02.

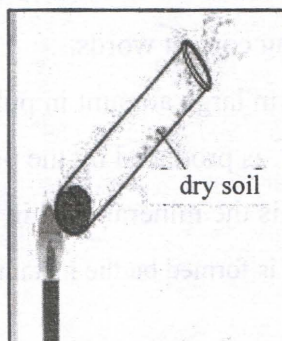
A. The diagram shows 4 setups constructed by 4 groups of grade 7 students regarding soli



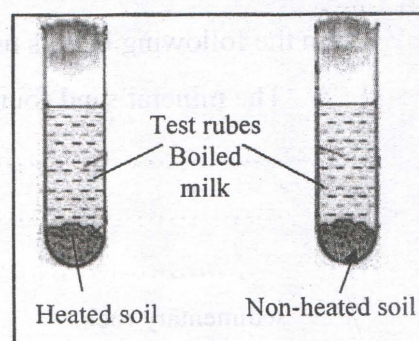
(1)



(2)



(3)



(4)

- i) Give two advantages gain from group activities.

.....
.....

(1 mark)

- ii) Select the suitable experimental structure given above for the experiment below and write the relevent number within the brakets.

- a) Seperating the component of soil ()
b) Presence of water in soil ()
c) To know whether micro-organism are present in soil ()
d) Ro find the presence of air in soil ()

(4x ½ =2 marks)

- iii) When the boiling tube of the experimental. Structure (3) was heated, liquid drops were found on the upper part of the boiling tube.

- a) What would be these liquid drops.

.....
Education (1 mark)

- b) Which chemical compound could be used to identify the above said liquid.

.....
(1 mark)

- c) What is the colour of this chemical compound.

.....
(1 mark)

- d) Write the colour change that takes place when adding the liquid to this compound.

.....
(1mark)

B. Minerals and rocks are the valuable natural. Sources of our country.

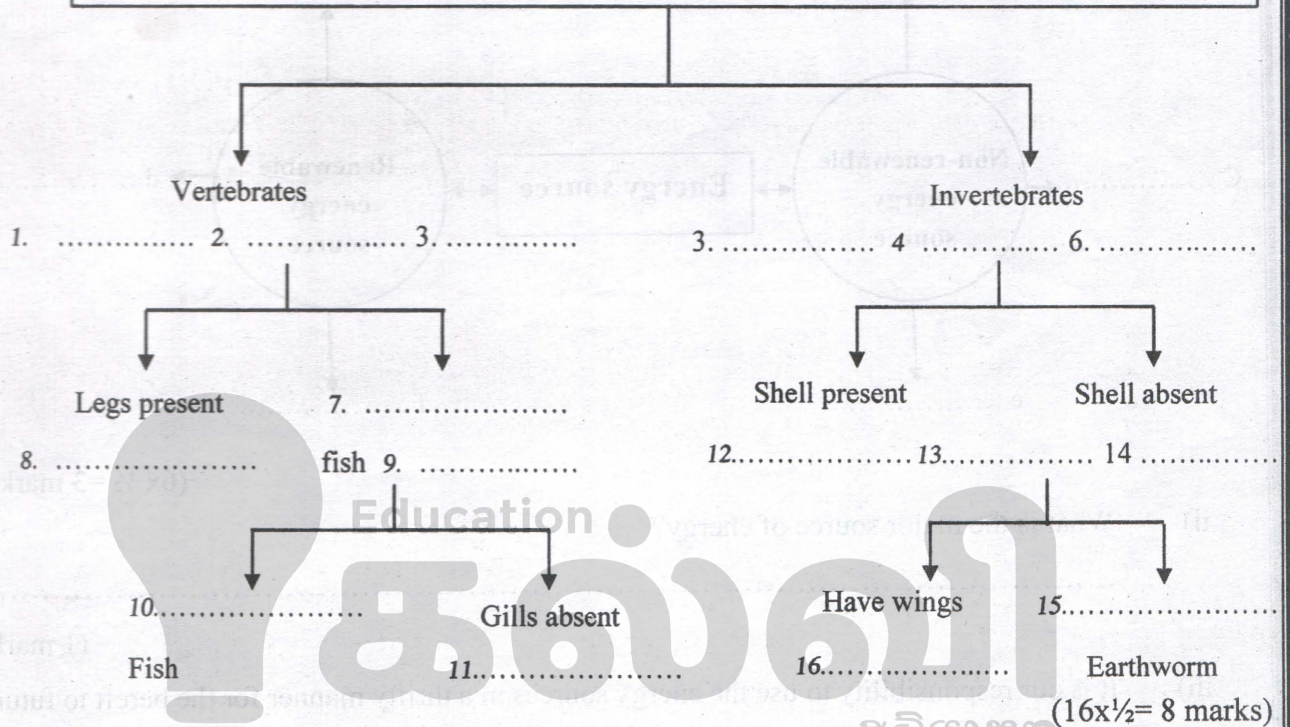
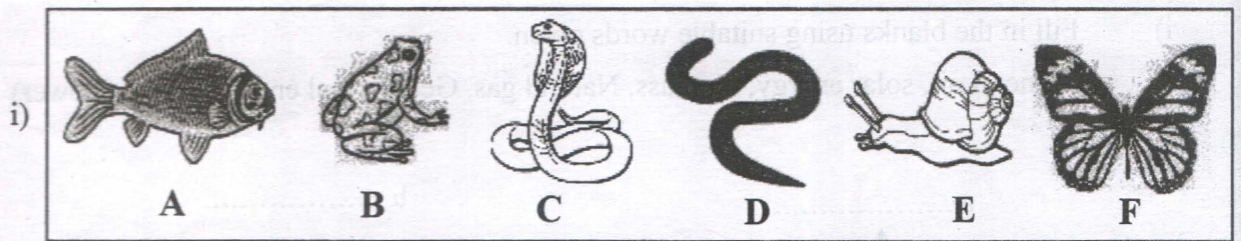
Fill in the following blanks using correct words.

- i) The mineral sand found in large amount in pulmode is
ii) is produced by the breakage of tocks by several factors.
iii) is the mineral used in the production of pencil
iv) is formed bu the metamorphosis of limestone which is a sedimentary rock.

(4 marks)

11

03. Figures of animals observed by students who went on a field trip, are given below. Fill in the dichotomous key using them.



ii) Which is the shape of the body structure of organism A that helps for its effective locomotion?

(1 mark)

iii) Which organisms exhibit camouflage?

(1 mark)

iv) State 2 benefits gained by organisms through camouflaging?

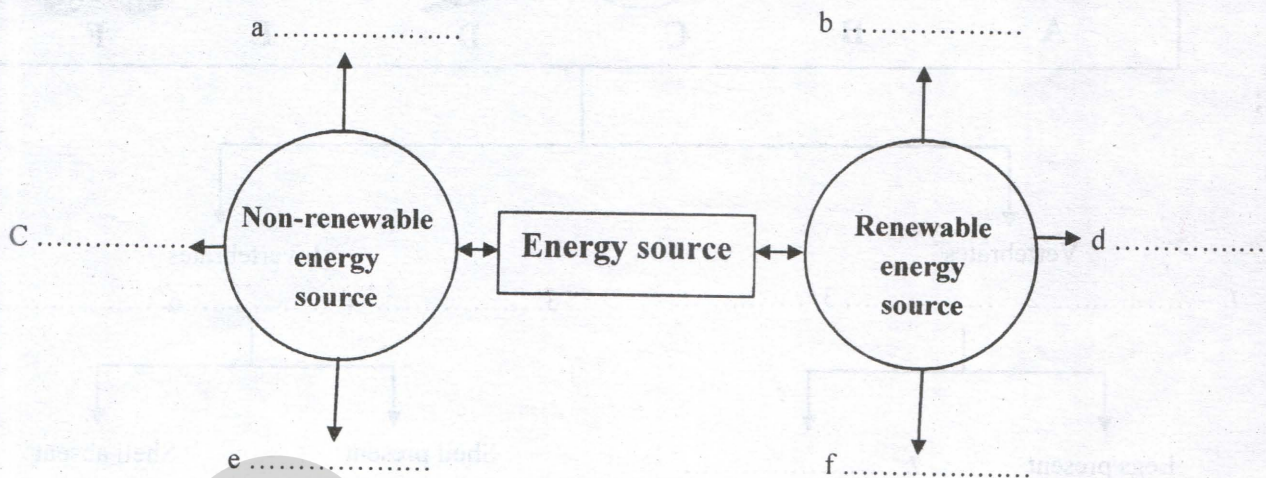
(1 mark)

04. Energy sources could be divided into 2 groups, which are shown in the diagram below,

A.

i) Fill in the blanks using suitable words given.

(mineral oil, solar energy, biomass, Natural gas, Geothermal energy nuclear power)



(6x ½ =3 marks)

ii) What is the major source of energy?

.....

(1 mark)

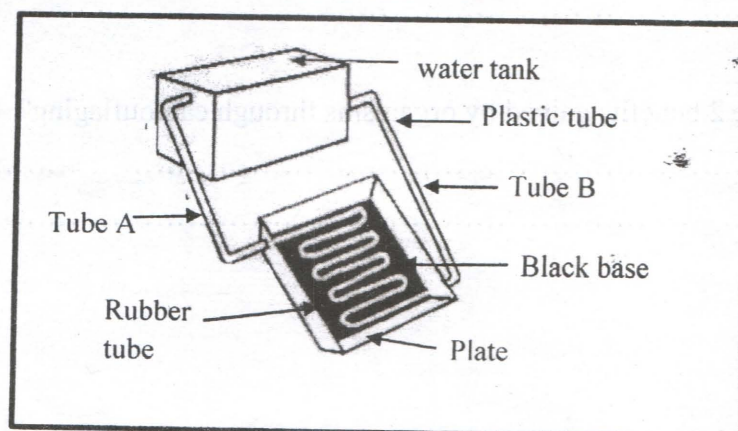
iii) It is our responsibility to use the energy sources in a thrifty manner for the benefit to future generation.

Give two strategies you take for this purpose.

.....
.....

(2 marks)

B. The picture below shows the solar heater used to heat water.



- i) State the energy source and the form of energy used to heat water in the given figure
 Energy source
 Form of energy
 (1 mark)
- ii) Write 2 advantages of using the above type of energy source.

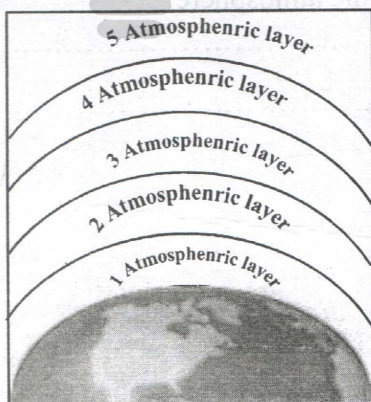
 (1 mark)
- iii) What technique is used to increase the absorption ability of the heat which falls on the plate?

 (1 mark)
- iv) Name the tubes A and B in which water flows down wards and upwards from the tank?
 Water flows downwards
 Water flows upwards
 (1 mark)
- v) Which method of heat transmission takes place from the sun?

 (1 mark)

05. Atmosphere is a thin layer of gases that surrounds the earth.

A.



- i) Atmosphere is divided into many layers from the earth surface upwards. write the layers in order.
 1.
 2.
 3.
 4.
 5.
 (3 marks)

- ii) Write 2 basic factors that are considered when dividing the layers of the Atmosphere.

 (1 mark)
- iii) By which name is the weight of the gases which cause pressure on all the things on the earth called.

 (1 mark)

iv) Which scale is used to measure weather forecast?

.....
(1 mark)

v) In which layer of the atmosphere is the ozone layer found

.....
(1 mark)

B. Atmosphere is a mixture of many gases from this gases the environment gets many advantages so it is important to look after this without getting polluted.

1) Which gas is necessary for the respiration of organisms?

.....
(1 mark)

2) Which gas is helpful to maintain the level of temperature on the atmosphere.

.....
(1 mark)

3) Which on gaseous pollutant in the atmosphere.

.....
(1 mark)

4) Write two human activities that caused pollution in the atmosphere.

.....
.....
(1 mark)