Provincial Department of Education, Northern Province

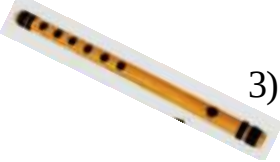
Third Term Examination – 2021 (2022)

Grade - **7** **Science** **Time - 2hours**

Part I

Select the most suitable answer and underline below it.

1. Which of the following musical instrument that produce sound by vibrating air column?

1)  2)  3)  4) 

2. Organisational level of a living organism is given below.

cell → A → organ → B → organism

Here A, B are respectively

1) body, system 2) tissue, system

3) tissue, body 4) system, tissue

3. Which of the following structure of human, absorbs the digestive food effectively:

1) Villi 2) teeth 3) stomach 4) liver

4. In which layer of atmosphere consists international space station?

1) Stratosphere 2) Troposphere

3) Thermosphere 4) Exosphere

5. What is the international / standard unit used to measure energy?

1) Newton 2) Kilogram 3) Celsius 4) Joule

6. 

Which of the following heat transfer method causes the far end of a metal spoon gets heated :

1) conduction 2) convection

3) radiation 4) none of the above

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TIME TABLE

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வழங்கப்படும்

ENGLISH MEDIUM

Monday	Tuesday	Wednesday	Thursday
7P.M SCIENCE 8P.M TAMIL	7P.M-HEALTH 8P.M-ICT	6P.M-HISTORY 7P.M-CIVICS 8P.M- ENG	8P.M-ENG

Friday	Saturday	Sunday
6P.M-HISTORY 7P.M MATHS 8P.M SCIENCE	6P.M-SINHALA 7P.M-ICT 9P.M- TAMIL	6P.M- GEO 8P.M- SCIENCE 9P.M-HEALTH

GRADE
07

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7. Which of the following internal structure of earth composites solid rocks and molten rocks

1) crust 2) inner core 3) outer core 4) mantle

8. 

Which of the following energy transformation that occurs here

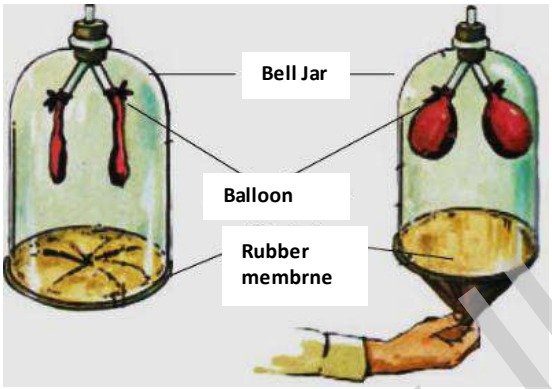
1) light energy ⟶ chemical energy

2) kinetic energy ⟶ light energy

3) chemical energy ⟶ light energy

4) potential energy ⟶ light energy

9. The given model was organized to explain the function of a human system. The system considered here is,



1) Digestive system
2) Nervous system
3) Blood circulatory system
4) Respiratory system

10. Which of the following substance dissolves in water well?

1) wax 2) laundry blue 3) petrol 4) Condis crystal

11. Which of the following organism that lives in soil, called "friend of farmers"?

1)  earth worm

2)  ant

3)  snail

4)  beetle

12. 

Some statements related to compound microscope are given below.

A – It consists two convex lenses.

B – Virus can be observed through it.

Correct statement/ statements is/ are?

1) only A 2) only B 3) A and B 4) all are wrong

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13. Which of the following organism showing Camouflage to protect them from predators?

1) crow 2) moth 3) bat 4) lion

14. Which of the following is a main light source to earth

1) moon 2) electric bulb 3) sun 4) candle

15. Which of the following seed is dispersed by wind?

1)  2)  3)  4) 

16. Select the **incorrect** statement related to static electricity?

1) Static electric charges are types which are positive and negative.
2) A glass rod rubbed with silk gains negative charge.
3) Occurring lighting phenomena associated with static electricity.
4) Like electric charges repel each other.

17. Which of the following figure shows the image of the given letter in a plane mirror?

.

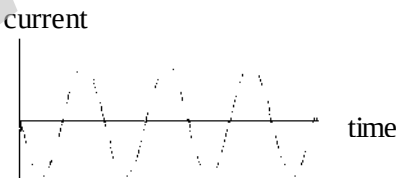


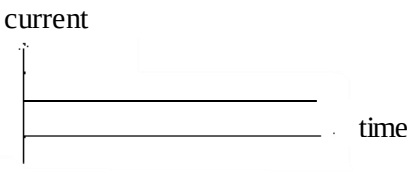
1) 2) 3) 4) 

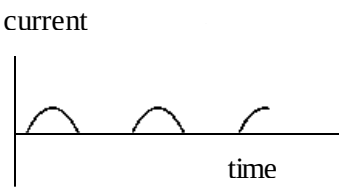
18. Which of the following is a non-flowering plant?

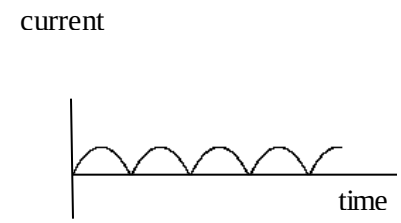
1) Palmyra 2) teak 3) cycas 4) lotus

19. The correct pattern of the graph for electric current produced in dry cell

1) 

2) 

3) 



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20. Which of the following is a neutral substance?

1) Vinegar 2) milk of magnesia 3) common salt 4) baking powder

(20 x 2 = 40 marks)

Part II

Answer all questions

01. If the following statements are correct put (√), if incorrect put (x) in the brackets.

1) A medium is necessary for the propagation of sound. ( )

2) Tissue is the basic structural and functional unit of living organism. ( )

3) Direction of motion can be changed by applying brakes of vehicle. ( )

4) Fire wood is a renewable energy source. ( )

5) Capacitor stored the electric charges temporarily. ( )

6) High percentage of gas in the atmosphere according its volume is Nitrogen. ( )

7) The indicator phenolphthalein shows the colour red in acidic medium ( )

8) A sedimentary rock, granite, undergoes metamorphism and gneiss rock is formed. ( )

9) Vitamin C strengthens our immunity. ( )

10) Concave mirror is used as a side mirror of vehicle. ( )

(10 x 1 = 10 Marks)

02. Select suitable words from the bracket and fill in the blanks.

(Coolant, plant, liquid, vocal cord, acid rain, solid, membrane)

1) Sound is produced because of the vibration of …… in human.
2) The constant temperature at which……..changes to gaseous state is the boiling point.
3) Air pollution causes……..
4) Tabla produces sound by the vibration of……...
5) Water is used as……in the radiator of vehicles.

(5 x 2 = 10 Marks)

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தரம் 7

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Monday

6 pm - English
7 pm - Tamil (G)
7 pm - Tamil (S)
8 pm - Science

Tuesday

6 pm - Science
8 pm - Maths (T)

Wednesday

7 pm - English
8 pm - History

Thursday

8 pm - Maths (T)

Friday

8 pm - History

Saturday

7 pm - Tamil (G)

Sunday

6 am - Tamil (S)

ZOOM

தமிழ் மீடியம்

Tamil (G) GAJATHIRI - Mon & Sat 7 pm || Tamil (S) SIVANITHY - Mon 7 pm, Sun 6 am

Maths (V) VIJEYASHANKAR - Mon & Fri 8 pm || Maths (T) THIRUKUMARAN - Tue & Thu 8 pm

Science - Mon 8 pm, Tue 6 pm || English - Mon 6 pm, Wed 7 pm || History - Wed & Fri 8 pm

ICT (TM) - Sat & Sun 7 am || ICT (EM) - Sat & Sun 12 pm || Sinhala (F) FARWIN - Wed 5 pm

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03. A) Some parts of plants are given below.
Answer the following questions using them.



1) Write down, in which part of the following plants suitable for storing?

a) Ginger – ……(1)

b) Carrot – ……(1)

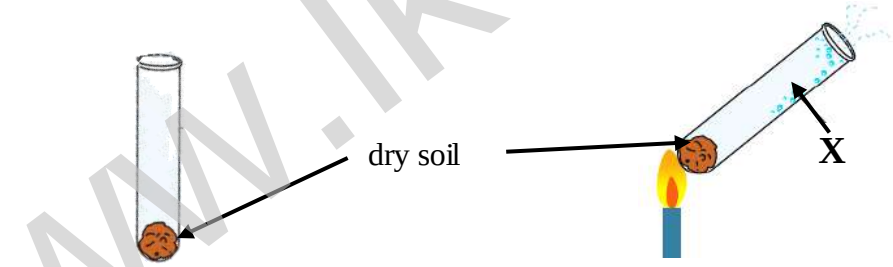
2) State a plant which reproduces new plant by leaves?

……(1)

3) Mention the living environment which is suitable to aloe plant?

……(1)

B) Following practical setup was arranged to prove one of the constituent of soil.



step I step II

1) Identify the substance X in step II which is released when heating the dry soil?

……(1)

2) Which chemical substance is used to confirm "X"?

……(1)

3) What is your conclusion of the above activity?

……(2)

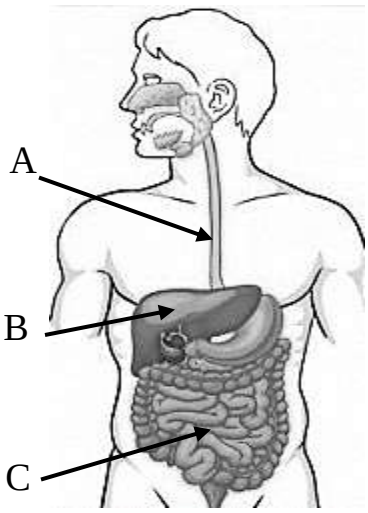
4) Write down the other two components which are in the soil except above mentioned?

…… ……(2)

(10 Marks)

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04. A) A human body consists of many systems. One of the system is shown in following figure.



1) Identify the given system?

…… (2)

2) Name the parts indicated by A, B & C

A - ……

B - ……

C - …….. (3)

3) Mention the food transportation movement through part A?

……(1)

B)



Nimal has done a practical to show the speed of sound differs to medium to medium according that picture. He kept a clock at one end of the table and stands at the other end of the table, and then hear the sound of the clock. Then, place his ear on the table and listen the sound of clock.

1) What are the observations have to done by Nimal in his practical record book?

a) When stand at the other end of table :-

……....(1)

b) When place his ear on the table :-

……....(1)

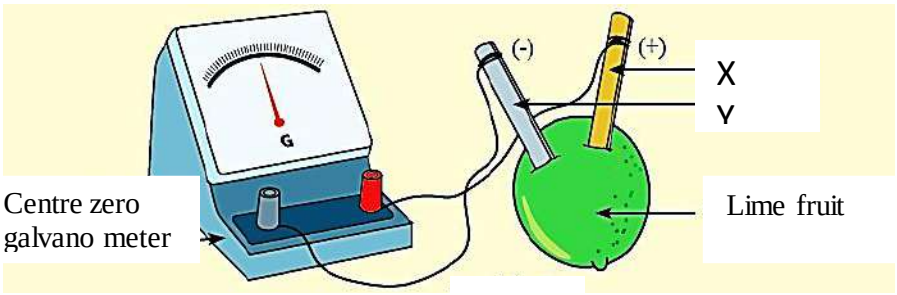
2) What is your conclusion according to his observations?

……(2)

(10 Marks)

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05. A) Following set up was arranged to generate electricity using a lime fruit in laboratory.



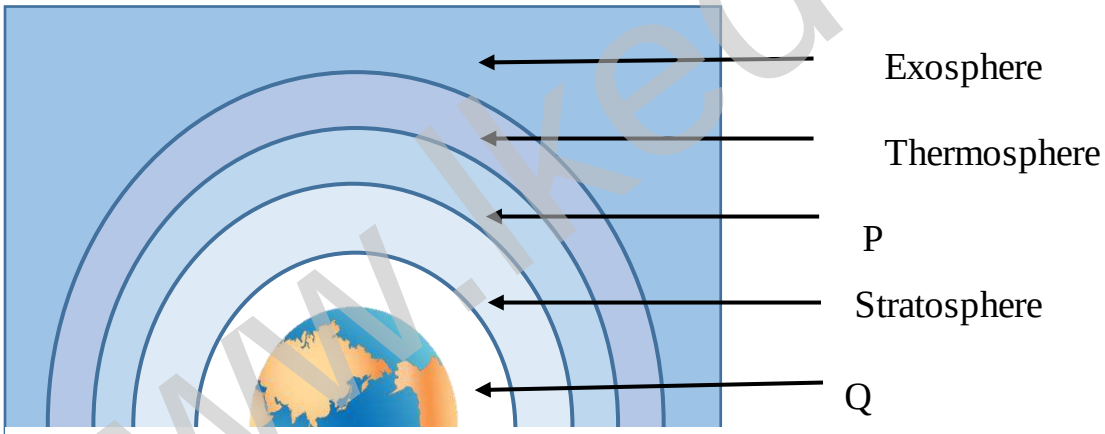
1) Identify the electrodes indicated by X and Y?

X - …… Y - …… (2)

2) Mention one observation of the above practical?

……(2)

B) Atmosphere is a thin layer of gases that surrounds the earth in spherical shape.



1) Name the layers of the atmosphere shown by P and Q

P - …… Q - ……..……..…(2)

2) (i) In which layer consists of ozone layer?

…..……..……..……..……..……..…(1)

(ii) Write down an important of ozone layer?

……..……(2)

3) Write a way of air pollution?

……..…..(1)

(10 Marks)

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06. A) Answer the following question using the given organisms only.



1) Select two invertebrate organism given above.

…….. …… (2)

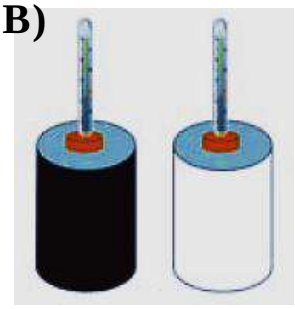
2) Which vertebral animal that lives only in water?

……(1)

3) What are the two animals having stream lined body shape?

…….... …… (2)

B)



A B

Equal volume of cold water poured into two equal tin cans and measured the initial temperature. Then exposed to sunlight and tabulated the readings about 5minutes interval.

A – black surface B – white surface

1) Which of the above tin can has higher temperature after 15minutes?

…… (1)

2) What is the reason for the temperature risen (answered in question I)

…….. (2)

4) Countries like Sri Lanka, light colour paints are more suitable to paint outer walls of the buildings. Give the reason?

……(2)

(10 Marks)

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