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வடமேல் மாகாணக் கல்வித் திணைக்களம்
Provincial Department of Education - NWP

Grade 7 | **First Term Test - 2019** | **34 E**

Science - I

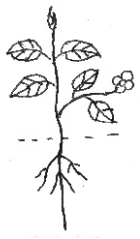
Name : **Index No.....**

Important ● **Answer all questions** **Time : 2 Hours**

● **Underline the most suitable answer.**

01. Select the suitable plant that should be pasted (by pressing and drying) in the field book to identify the parts of a plant.

1. Mango 2. Kuppamenia 3. ' Elabatu' 4. Croton



02. What is not the feature of given plant?
1. Having a tap root
2. Dividing the stem into branches
3. Having two seed leaves
4. Having parallel venation in leaves

03. What is the source of electricity that generates electricity by moving?
1. Solar cell 2. Dry cell 3. Simple cell 4. Bicycle dynamo

04. What is the appliance that works using an alternate current?
1. Wall clock 2. Toy car 3. Head lamp of a bicycle 4. Mobile phone

05. The things that give different colours with acids and bases are known as,
1. indicators 2. salts 3. acids 4. bases

06. The function of the roots arising from branches is,
1. Providing support to the stem.
2. Providing support to branches
3. Absorption of mineral from the atmosphere
4. Being storage roots

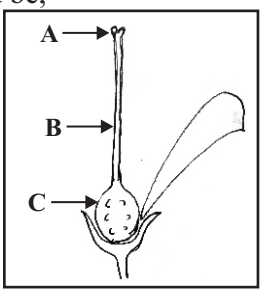
07. Several features of flowers are given below. What are the features of flowers that bloom at night
A. White coloured flowers
B. Having a fragrance
C. Absence of petals

1. A only 2. B and C 3. A and B 4. A,B,C

08. Lumpy skin of leopard helps to be invisible to catch preys. This adaptation is named as,
1. migration 2. camouflage 3. metamorphosis 4. perennation

09. An instrance where the static electricity is used is,
1. working a fan
2. in photocopy machine
3. Lighting a LED
4. in a solar cell

10. A structure of a flower is given below. The correct order of A,B and C should be,



1. stigma, style, ovary
2. stigma, ovary, style
3. style, stigma, ovary
4. stigma, filament, ovary

11. Pour 2 ml of solutions of lime juice of lime juice, vinegar, soap water, and lime water test tubes. Add few drops of boiled shoe flower juice. The correct observation should be,

1. Vinegar turns to red colour
2. lime juice turns to blue colour
3. soap water turns to yellow
4. lime water turns to colour less

12. What is the correct statements about the simple cell which is connected to a torch bulb?

1. The negative terminal is copper plate
2. The bulb is lighting on and off
3. Sulphuric acid rurns to red gradually
4. Zinc plate dissolves

13. Select the answer that contains only the substances which show colour change of blue litmus

1. Water, hydrochloric acid, lime juice
2. Lime juice, vinegar, tomato juice
3. Hydrochloric acid, soap water, surgical spirit
4. Soap water, surgical spirit, water

14. When adding a drop of phenolpthalin into base solution, the colour change should be,

1. turns to colourless
2. turns to yellow
3. turns to pink
4. turns to blue

15. Vitamins, minerals, medicine are transported through our body by blood. The water in blood acts as,

1. a solvent
2. a coolant
3. a medium
4. an insulator

16. Not a protective behaviour of animals is,

1. Shedding the tail by gecko
2. Hiding inside the shell by tortoise
3. Shedding skin by green pit viper
4. Living among grass by ahatulla

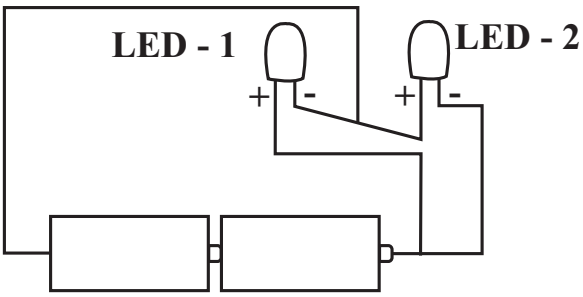
17. A mammal who is flying as a mode of locomotion is,

1. bat
2. butterfly
3. crow
4. dragonfly

18. Select the answer that contains water soluble substances only

1. Glucose, kondis crystals, Laundry blue powder
2. Kerosine, coconut oil, salt
3. Sodium bicarbonate, termeric powder, vinegar
4. surgical spirit, salt, vinegar

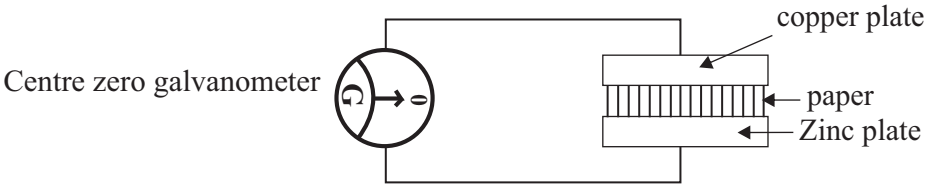
19.



The diagram shows that two LEDs are connected to two dry cells. Select the correct observation that should be observed

1. Both LEDs light up
2. Both LEDs do not light up
3. LED-1 Lights up, LED -2 does not light up
4. LED-2 does not light up, LED - 2 lights up.

20. The diagram shows a source of electricity prepared by the science teacher.



The most suitable substance that should be soaked the paper to get and observation of center zero galvano meter is,

1. Kerosine
2. Distilled water
3. Surgical spirit solution
4. Vinegar solution

21. Select the incorrect statement

1. The glass rod rubbed with silk is charged positively.
2. The ebonite rod rubbed with woolen cloth is charged positively.
3. The ebonit rod rubbed with wool is charged negatively.
4. The PVC rod rubbed with silk is charged negatively.

22. There are 3 diagrams of fruits and seeds

The correct order of methods of dispersel is,

1. by wind, by animals, by water
2. by wind, by water, by animals
3. by animals, by water, by wind
4. by water , by animals, by animals

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23. What is the correct answer about the nature the division of the leaf blade?

e

Answer	The leaf blade is not divided	The leaf blade is partially divided	The leaf blad is totally divided
1.	Drumstick	Papaw	Curry lreaves
2.	betel	long beans	Manioc
3.	Mango	bread fruit	Coconut
4.	Alocasia	sweet potatoes	Palmyra

24. Several colours of piece of ekle (red, green, yellow, brown) are spread on grass. Two students are appointed to pick up pieces of ekle within a limited time. Which colour of ekles were picked up last?

1. Green 2. Yellow 3. Red 4. Brown

25. A student listed out the advantages of camouflage.
A. To protect by being invisible from predators
B. To find prays easily
C. To fast locomotion

The correct answer / answer is/ are,
1. B and C 2. A and C 3. A and B 4. A, B, C all

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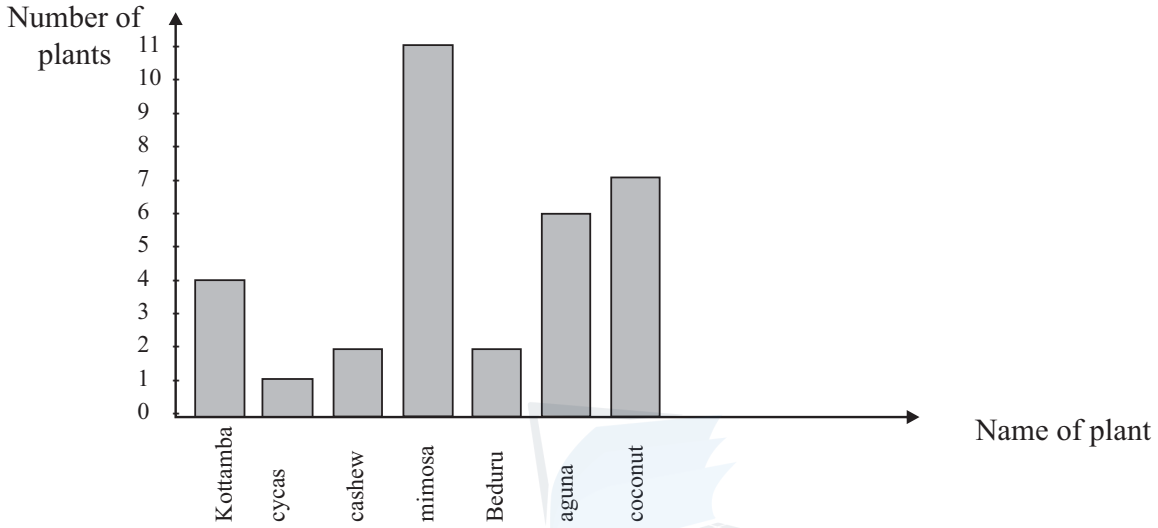
Part - II

- **First question is compulsory**
- **Answer another 4 questions**
- **12 marks are allocated for each question.**

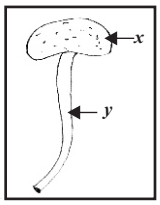
(01) Given bar chart indicates several kindS of plants identified by a group of students in a feild visit



Answer questions using the graph

A) i. What is the most abundant plant found? (1 mark)
ii. Write a plant with unbranched stem (1 mark)
iii. Write a plant having compound leaves (1 mark)
iv. What is the non flowering plant? (1 mark)
v. Name the plant having root nodules. (1 mark)
vi. A plant which is adapted to disperse by water was found here. Name that plant, (1 mark)
vii. What is the monocotyledonous plant found here? (1 mark)
viii. Write the name and its adaptation of a seed which is dispersed by wind. (2 mark)

B.



The diagram shows an androecium of a flower
i. What is the function of it? (1 mark)
ii. Name x and y (1 mark)

(02) Given species of organisms living in a sea shore were found by the students in a field visit,

A) Sea gull, a species of fish ('salaya'), turtle, bivalve, sea anemone
A dichotomous key is prepared to classify above mentioned organisms only using their external features.

i. Write the relevant answer in the blanks given in the dichotomous key.

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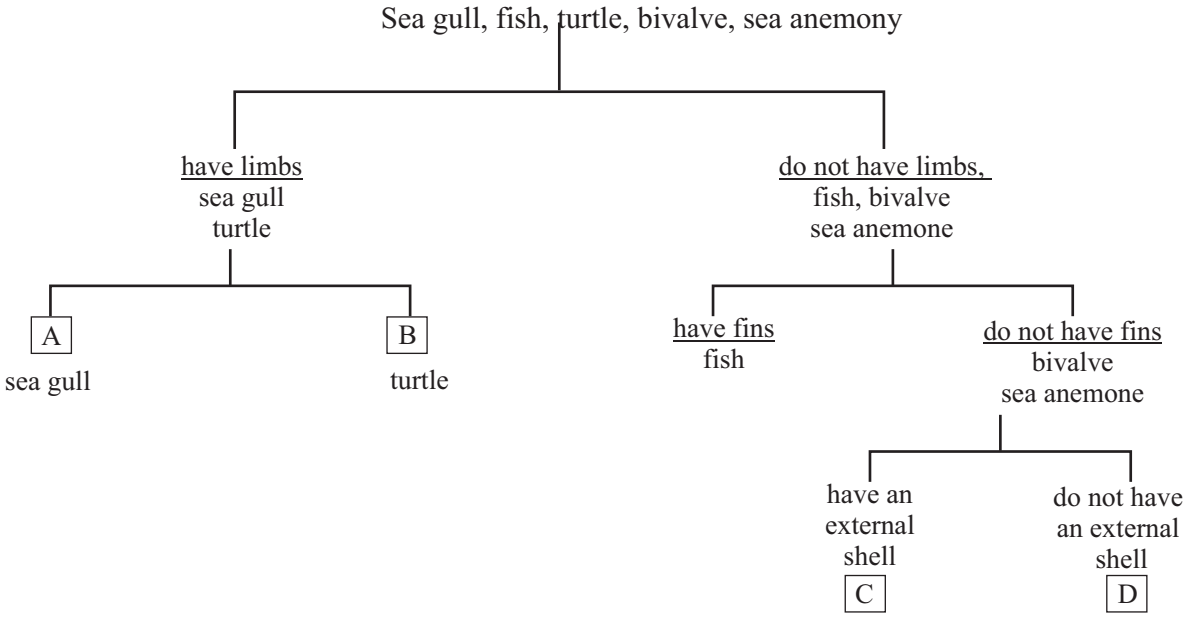
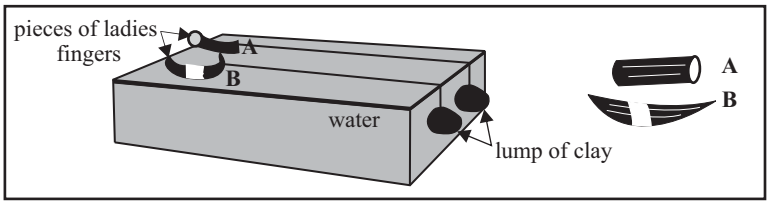


(4 marks)

ii. Write another external feature that can be used to classify bivalve and sea anemony which is not mentioned in the dichotomous key. (1 marks)

iii. Write 2 invertebrates that is mentioned in the dichotomous key. (1 marks)
iv. Write an adaptation of sea gull to live in its environment. (1 mark)
v. write a protective behavior of bivalve. (1 marks)
vi. Write 2 animals who posses a stream lined body shape.
Write the advantage of each animal for having stream lined body shape for animals that you have mentioned above. (2 marks)

B) The diagram shows an activity done to demonstrate how the body shape helps for locomotion.

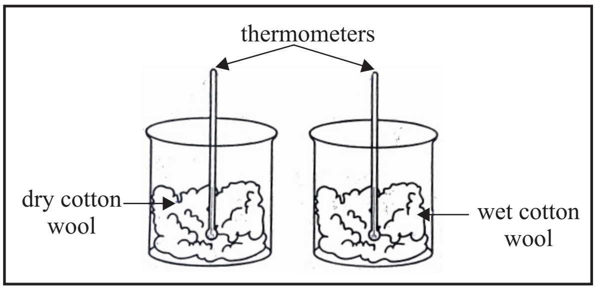


i. When releasing A and B pieces at once, which moves faster? (1 marks)
ii. State the reason for your answer mentioned in (1) (1 marks)

(03) i. Write an example for each of the solvent property of water, coolent property, lubricate property and as a medium of life. (2 marks)
ii. Battery acid is the dilute sulphuric acid which is diluted from concentrated acid.
What is the property of water used here? (1 marks)
iii. When mixing the given substances with water write an example for each for the substance dissolve in water, substance that do not dissolve in water and substance that dissolves a little in water from the substances given below.
Glucose, wax, clay, surgical spirit, turmeric, powder, coconut oil. (3 marks)

iv. Producing salt and producing jaggary are two uses of seperating materials dissolved in water. How the salt and jaggary are produced? (2 marks)

v. An apparatus prepared to observe the coolent property of water is given below.



Write the changes of the thermometers in vessel A and B after keeping few minutes.

A: ____

B: ____ (2 marks)

vi. Name a reptile and a mammal who live in water as a medium of life. (2 marks)

(04) Static electric charges are generated when some substances are rubbed.

i. Who observed first that the light objects are attracted to the substances which are rubbed? (1 mark)

ii. There are two types of static electric charges. Name them (2 marks)

iii. What is the type of static electrical charge on a glass rod rubbed with silk? (1 mark)

iv. When bringing closer the ebonite rod rubbed with wool towards a glass rod rubbed with silk, both rods get attracted each other. What is the type of static electric charge on ebonite rod? (2 marks)

v. What is the equipment used to store static electric charges ? (1 mark)

vi. What is the SI unit used to measure the amount of static electric charges? (1 mark)

vii. When bringing closer the ebonite rod and glass rod after rubbing with woolen cloth, what will be the observation. (2 marks)

viii. Write 2 equipments that use static electric charges. (2 marks)

(05) The substance we use at home as well as chemical used in the laboratory can be classified as acids, bases and neutral substances according to their properties.

A) i. Some materials in the natural environment can be used to identify acids, bases and neutral substances. Write 2 of those materials. (2 marks)

ii. Write 2 acidic substance used at home (2 marks)

B) The observations of litmus papers which are dipped into 3 liquids in the laboratory named x, y and z are given in the table.

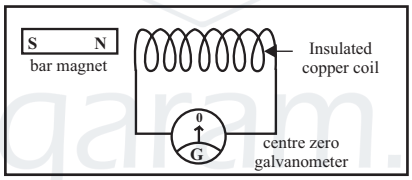
Substance	Blue litmus	Red litmus
x	No colour change	turns to blue
y	no colour change	No colour change
z	turns to red	No colour change

i. Which substance shows basic properties? (1mark)
ii. Which substance shows neutral properties? (1mark)
iii. Which substance gives pink colour when adding few drops of phenolpthaline into above 3 substances? (1 marks)

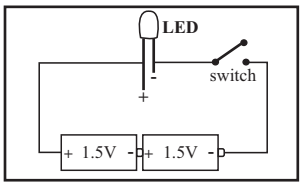
C) Three pieces of pH papers were put into given solutions
Surgical spirit solution , sodium hydroxide solution, Hydrochloric solution

Answer the questions according to the observations.
i. Which solution gives a colour in a ranges of 1-6 colours of pH paper? (1mark)
ii. Which solution gives a colour in a ranges of 8-14 colours of pH paper? (1mark)
iii. Which solution gives the colour of 7 of the pH paper? (1mark)
iv. Write chemical substances for given instances (2 marks)
i. When biting a bee sting
ii. The chewable substances which used in gastritis condition.

(06) Two ways of generating electricity are given below.



A



B

i. When moving the magnet towards the copper coil, what would be the change observed in the galvanometer? (1 mark)

ii. When moving the magnet away from the coil, what would be the change observed in the galvanometre ? (1mark)

iii. Which type of electric current generates in circuit 'A' (2 marks)

iv. When closing the switch, what is the observation of LED in circuit 'B' ? (1 mark)

v. What is the reason for your answer mentioned in (iv)? (2 marks)

vi. Which type of electric current flows through circuit 'B'? (2 marks)

vii. Write two another methods of generating electricity (2 marks)

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