සියලු හිමිකම් ඇවිරිණි/ முழுப் பதிப்புரிமையுடையது / All Rights reserved

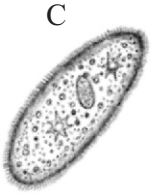
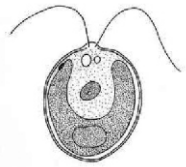
Grade : 09 | **YEAR END TEST - 2019** | **34 E I**

Sicence - I | **Time : 2 Hours**

Name / Index No:.....

Instructions : ● Answer all the questions

01. Select the correct order for ABCD group of the micro - organisms given below.

A B C  D 

(1) Protozoa , Algae , Fungi , Bacteria
(2) Bacteria , Fungi , Protozoa , Algae
(3) Fungi, Bacteria , Protozoa , Algae
(4) Algae, Bacteria , Fungi , Protozoa

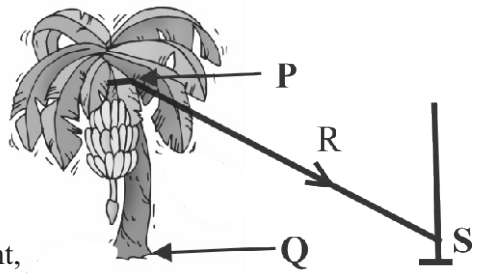
02. Following statements are given by a student

A - All micro - organisms are invisible to the naked eye when taken individually
B - Virus are multiply only inside the living cells
C - Virus have cellular organization as like as bacteria
The correct statements are,

(1) A and B only (2) A and C only (3) B and C only (4)All A,B,C

03. Following diagram shows a banana tree tighted to the pole with rope to prevent it fallen by the wind what is the point of application of a force,

(1) P
(2) Q
(3) R
(4) S



04. What is an action not done by natural growth substances of plant,

(1) Growth of the tip to words light
(2) Mature and ripe the fruits
(3) Fallen leaves when matured.
(4) Fallen tender fruits from stalk

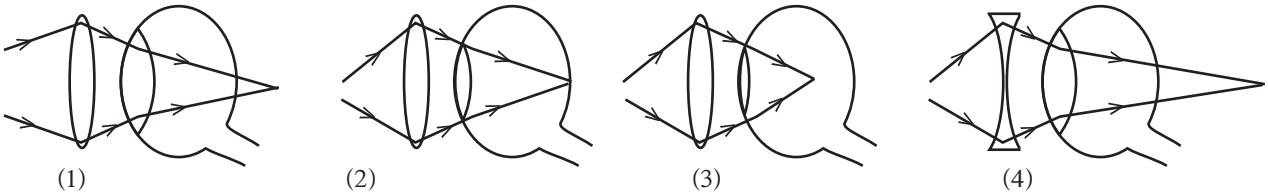
05. The structural unit of an element is known as atom. sub atomic particles which are found in nucleus of the atom are,

(1) Neutrons and electrons
(3) Protons, Electrons and neutrons
(3) Electrons and protons
(4) Protons and neutrons

06. The unit of measuring pressure is,

(1) $N\,m$ (2) $N\,m^{-2}$ (3) $N\,m^{-1}$ (4) $N\,m^{2}$

07. What is the correct ray diagram to correcting the long sight



(1) (2) (3) (4)

08. Find the correct statement about blood.

(1) Arteries always take blood towards the heart

(2) There are four types of blood groups and rhesus factor divided blood groups further

(3) Red blood cells help in the clotting process of blood at a bleeding site

(4) A person who has blood group O can receive blood from group AB

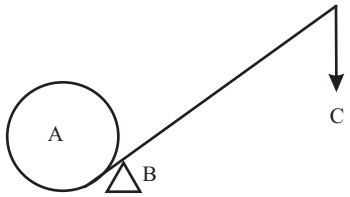
09. Find the correct answer match A with B

A	B
(1) Coconut	Suitable for insitu conservation
(2) Plant roots	Shows nastic movements
(3) Fragella	Amoeba used for locomotion
(4) Plant apex	Shows tropic movements

10. What is the answer with an element and a compound respectively,

(1) O and C (2) C and Mg (3) Al and CH_4 (4) NH_3 and Hg

11. Following diagram shows the lever device used to high a load up, Find the answer with effort ,fulcrum and load respectively.



(1) A,B,C (2) B,C,A (3) C,B,A (4) C,A,B

12. The correct answer about simple machine

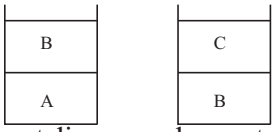
(1) When removing screw nail by using screw driver is act as a lever.

(2) The ladder is example for the inclined plane.

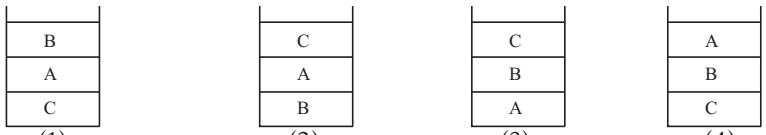
(3) The steering wheel of a vehicle is belongs to pulleys.

(4) when sweeping by broom is example for 2nd order lever

13. A, B, C are three liquids, which do not mix together, are put in to two beakers shown below



What is the correct diagram when put all three liquids in to one beakers



(1) (2) (3) (4)

14. The nano meter is equal to

(1) 10^{-6}m (2) 10^{-9}nm (3) 10^{-9}m (3) 10^{-6}nm

15. Find the correct statement about light reflection

A - Regular reflection done by rough surface

B - The image form by the plane mirror are with lateral inversion

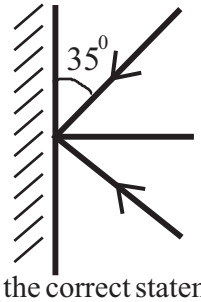
C - When incident ray lie on normal line is not reflect

(1) only A . (2) only B . (3) A and B only. (4) B and C only.

16. Homo atomic molecule and hetero atomic molecule represented respectively.

(1) H_2O and CO_2 (2) H_2 and N_2 (3) H_2 and CO_2 (4) CO_2 and O_2

17. Following diagram shows ray diagram of a reflection of light ray in a plane mirror. What is the angle of the incident in this diagram



(1) 35^0

(2) 70^0

(3) 55^0

(4) 90^0

18. What is the correct statement about atoms

(1) The number of neutrons present in the nucleus is known as atomic number.

(2) The sum of the number of protons and neutrons in the nucleus is called mass number.

(3) Any element composed same type atoms.

(4) The number of electrons are more than the number of protons in a neutral atom.

19. A feature of an electrode which used in electrolysis is

(1) React with container of electrolyte (3) Not chenically react with electrolyte

(2) Insulator for electricity (4) must be a metal

20. An element consist of 20 protones, 22 neutrons and 20 electrons what is the answer with atomic number and mass number respectively.

(1) 20,20 . (2) 20, 22 . (3) 20, 42 . (4) 20, 40 .

21. Natural environments and examples are given below. Find the correct answer.

(1) Thron bushers and scrublands - Anuradhapura (3) wet patana - Horton plains

(2) Tropical rain forest - Nuwara Eliya (4) Dry mixed ever green forest - sinharaja

22. What is the correct answer about electrolysis of acidic water

(1) Used distilled water as electrolyte

(2) Hydogen gas evolves at the positive carbon electrode

(3) Oxygen gas evoleves at the positive carbon electrode

(4) Oxygen gas evolves at the negative carbon electrode

23. Precaution that can not be taken to prevent accidents caused by lightning

(1) Fixing lighting conductors for tall building

(2) Installing earth wire properly in domestic electrical circuits

(3) Connecting the antenna wires to the television set

(4) Do not connect out side connecting wires in to the house

24. To get high quality electro plating

(1) Used high power electricity

(2) Elecro platting occurs very slowly

(3) Used high power voltage

(4) The object that is plated should be used as the positive electrode

25. Find the most correct answer about natural disasters.

(1) Tsunami occurs due to the earthquakes only.

(2) When occurring Tsunami hight of waves in the shallow sea is lower than the deep sea.

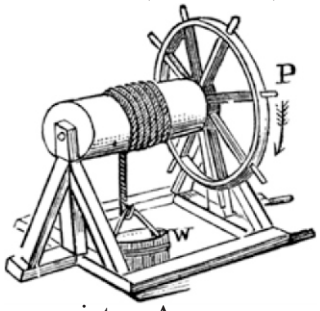
(3) Carbon dioxide gas is involve to the increases of global warming.

(4) Water vapour , methane gas not involve to the increase of global warming.

Part II

Answer the all questions.

01. (A) Following pictures shows gem ming by using windlass (picture A) and transport soil by using wheelbarrow (Picture B)



picture A

picture B

(I) Name the type of simple machine in windlass (Picture A) (01 Mark)

.....

(II) a. Which order of lever , Wheelbarrows is belongs to (01 Mark)

.....

b. Weight of soil with gem is 500 N. 100 N force applied to the wheelbarrow calculate the mechanical advantage of the wheel barrow

.....

..... (01 Mark)

(B) Separate gem from soil mixture (illama) by washing it in water

i. Name the type of mixture, the soil with gem (illama) belongs to .....(01 Mark)

ii. What is the physical method of separating gem in a mixture of soil

.....(01 Mark)

iii. Write 02 characteristics of gem

i. .....

ii. ..... (02 Mark)

iv. Write a bad effect to the environment associated with gem ming

..... (01 Mark)

(C) A worker injured when transport soil using wheelbarrow after short time stop blending at a bleeding site

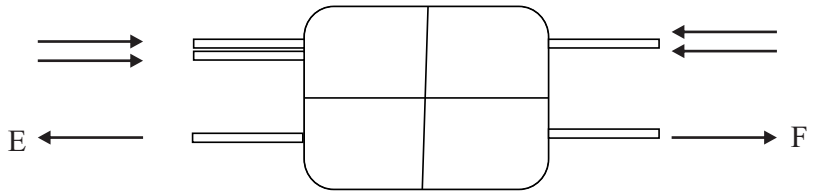
i. What is the reason that the stop bleeding naturally (01 Mark)

.....

ii. Name the type of corpuscles helps to stop bleeding (02 Mark)

.....

Following diagram shows structure of heart. Flowing direction of blood shows by arrows.



iii. a) Name part C

..... (01 Mark)

b) Name the organ which received blood from E

..... (01 Mark)

C) Name the valve in between B and D (01 Mark)

.....

.....

.....

02. (A) Following activity done to observe how the path of light beam changes when it enters from one transparent medium to another transparent medium the ray diagram for laser beam transfer through the soap water is given below

i. By what name is the phenomenon known as above incident (01 Mark)

.....

ii. Write the name for light rays AB and BC

A-B .....

B-C ..... (02 Mark)