

# JAFFNA HINDU COLLEGE

## First Term Exam - 2023

Grade - 09

Science

Time :- 2 Hours

Name/Index No: .....

### Part - I

❖ Select most appropriate answer

01) Which is the SI unit of pressure

1) Newton

2) Hertz

3) Joule

4) Pascal

02) Name the microorganism that possess chlorophyll

1) Algae

2) Virus

3) Fungus

4) Protozoa

03) Which part of eye distribute blood to the eye

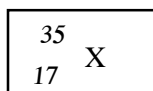
1) Iris

2) Sclerotic

3) Choroid

4) Retina

04)



Find the number of proton in the element X

1) 35

2) 17

3) 18

4) 52

05) Which is pure substance in followings

1) Salt solution

2) Glucose

3) Crude oil

4) Air

06) Name the technology that extract metals by using microbes

1) Bio remediation

2) Industrial microbiology

3) Bio leaching

4) Gene technology

07) Which part of ear involved in body balance

1) Semi circular canal

2) Cochlea

3) Ossicles

4) Pinna

08) The method of extraction of cinnamon oil from the cinnamon leaves

1) Evaporation

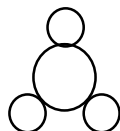
2) Simple distillation

3) Steam distillation

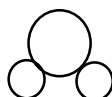
4) Fractional distillation

09) Which is the molecular structure of water in following

1)



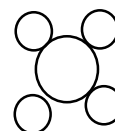
2)



3)



4)



10) The hearing limit of human is

1) 0 – 20 Hz

2) 20 – 200 Hz

3) 20 – 2000 Hz

4) 20 – 20000 Hz

11) Microorganism which cause tuberculosis

1) Bacteria

2) Fungus

3) Protozoa

4) Virus

- 12) Which is not an antibiotic that destroy the bacteria
- 1) Amphotericin      2) Cloxacillin      3) Penicillin      4) Erythromycin
- 13) The latin name of mercury is
- 1) Ferrum      2) Cuprum      3) Aurum      4) Hydragyrum
- 14) How to call the spoilage of carbohydrate food
- 1) Rancidity      2) Putrefaction      3) Fermentation      4) Accumulation
- 15) Which is correct statement in following about force
- A. Force is a scalar quantity  
 B. The point on an object which the force exerted is called as point of application  
 C. Can be change the direction of moving object by applying force
- 1) A, B only      2) B, C only      3) B only      4) A, B and C
- 16) The weight of the object with the mass of 600g
- 1) 600N      2) 60N      3) 6N      4) 0.6N
- 17) Which is the feature of image formed in the retina of eye
- 1) Virtual image      2) Inverted image      3) Equal size to the object      4) Magnified image
- 18) The part of eye that control the amount of light ray entering into the eye
- 1) Iris      2) Eye lens      3) Pupil      4) Cornea
- 19) Which part is belongs to middle ear
- 1) Eustasian tube      2) Cochlea      3) Semi circular canal      4) Tympanic membrane
- 20) Which statement is incorrect about pressure
- 1) When the force increase, pressure also increases.  
 2) When the surface area increase, pressure also increases.  
 3) When the surface area increase, pressure is decreases.  
 4) Pressure depend on force and surface area.

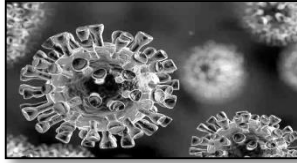
## Part – II

### ❖ Write all answers

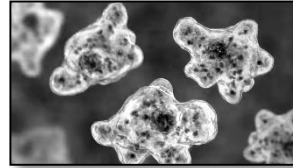
01) The organism which are can't be seen by naked eye are called as microorganisms



**A**



**B**



**C**

1. Name the microorganisms of A, B, C

A-..... B-..... C-.....

2. What is the use of A in the yoghurt production?

.....

3. a) Which group belong to the microorganism C?

.....

b) What is the locomotory organ of C?

.....

4. Write down 2 diseases that caused by B?

.....

5. Give 2 diseases that are caused by microorganisms to the plants?

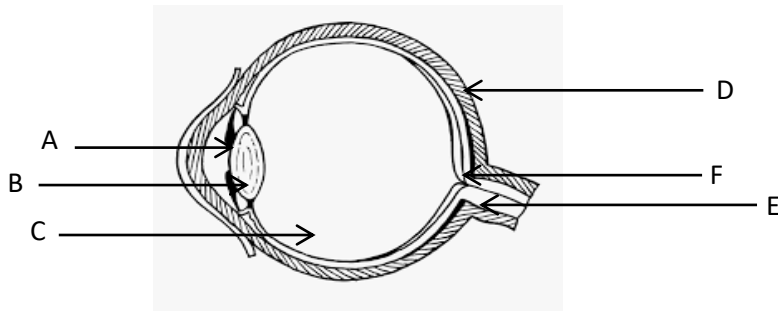
.....

6. Give 2 applications of microorganism in agricultural field?

.....

.....

02) The structure of cross section of human eye is given below



1. Identify the parts of A, B, C and D

A-..... B-.....

C-..... D-.....

2. In a person, part B become cloudiness due to the loss of transparent through it

a) What is the disease condition?

.....

b) Write down a environmental factor reason for above disease?

.....

3. Vision is impossible even though light rays focused in a part of eye

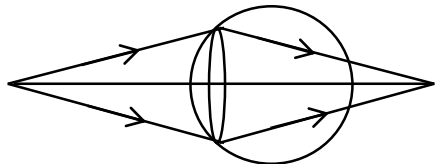
a) Which letter denote that part?

.....

b) What is the reason for that?

.....

4.



The figure shown the formation of image in an eye with certain eye defect

a) Identify the defect?

.....

b) Name the lens used to remedy for this defect?

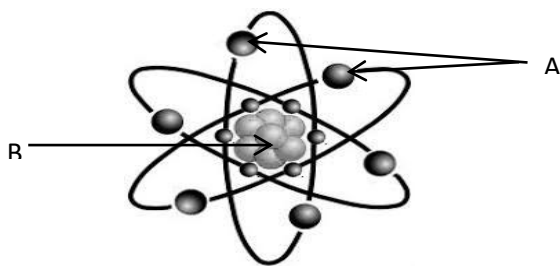
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5. Give 2 advantage of binocular vision

.....

.....

03) Structure of an atom shown in the figure



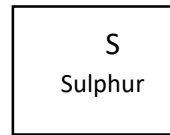
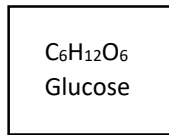
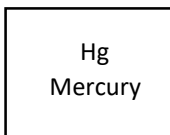
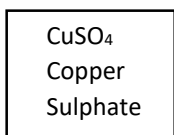
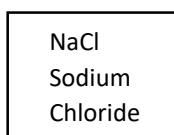
1. Identify the A and B

A-..... B-.....

2. State the subatomic particles in B

.....

3. Label of some chemical substance in laboratory given below



a) Classify the above substances as elements and compounds

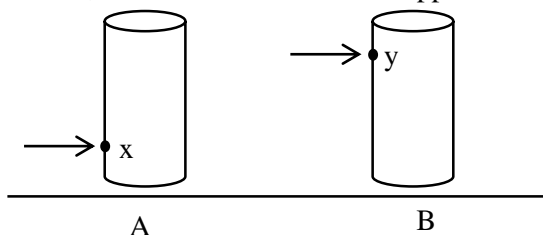
Element.....

Compound.....

4. Give 2 examples for Homogeneous mixture

.....

04) Following figure shows, Two students of A and B applied force on 2 glass beakers on the table to move



1.

a) How to call the points of x and y?

.....

b) Which student have much possibility to move bottle without break?

.....

2. Force is a vector quantity. What is the reason for that?

.....

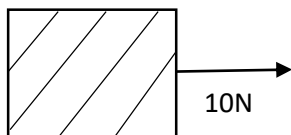
3. Name the instrument used to measure the magnitude of force?

.....

4. Write down a change in a moving object when applied force on it?

.....

5.



a) Write down the quantity represented by followings items in a graphical representation of force

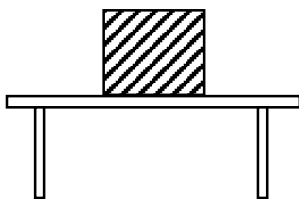
1. Length of straight line?

.....

2. Arrow head of straight line

.....

05) Cuboid wooden block with weight of 100N placed on a table the pressure exerted by an object is 400Pa



1. What is pressure?

.....

.....

2. Find the surface area of wooden block which contact with the table

.....

.....

3. 4 Wheels connected with wooden block to pull that wooden block

a) What will happen to the pressure on table exert by wooden block

.....

b) Which factor change that affect the pressure

.....

4. What is the reason for the bottom side of stand of bicycle made as broad?

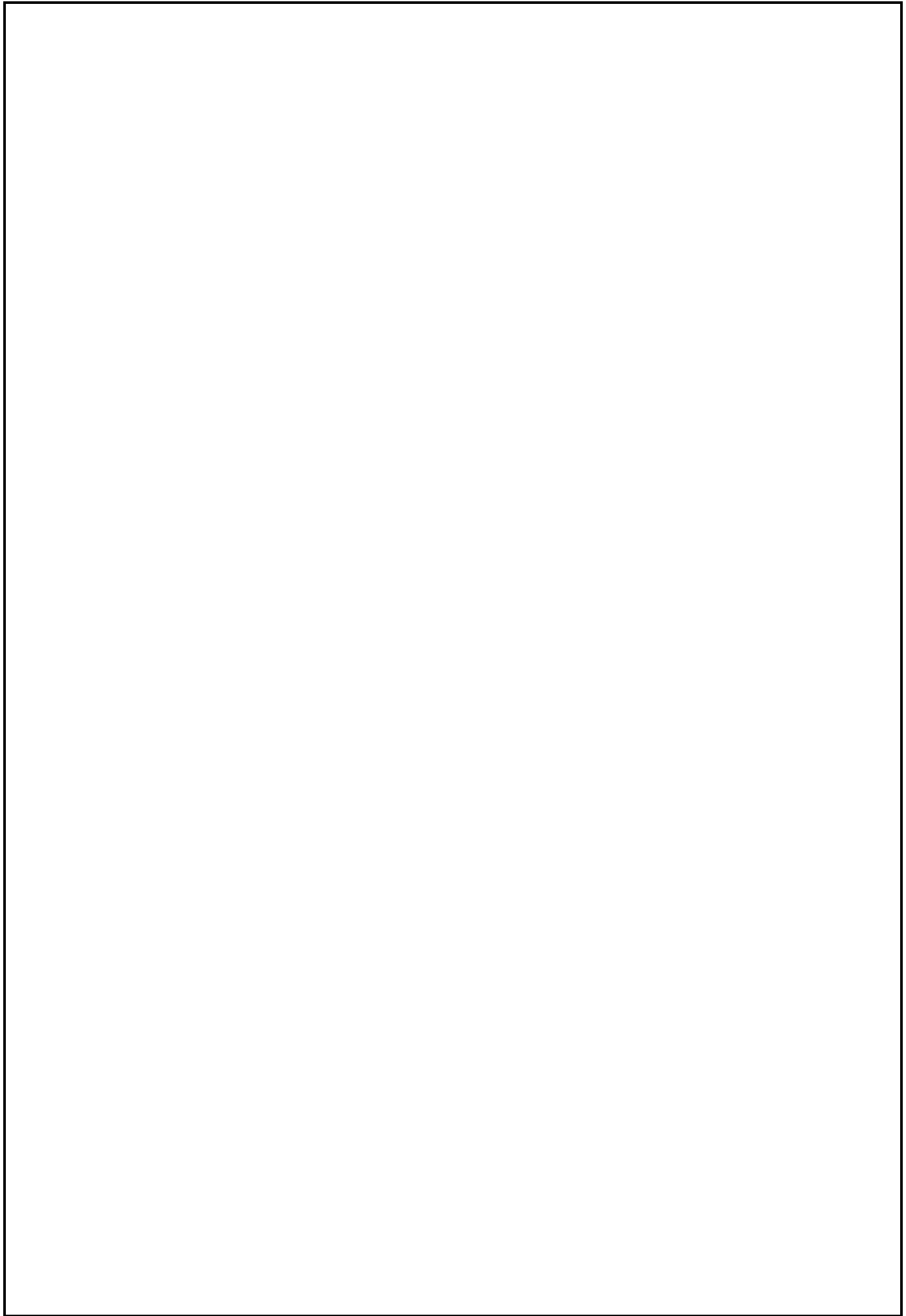
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5. Give an application that is practically used to increase pressure in day to day life?

.....

6. Give an adaptation in living being to increase the pressure

.....





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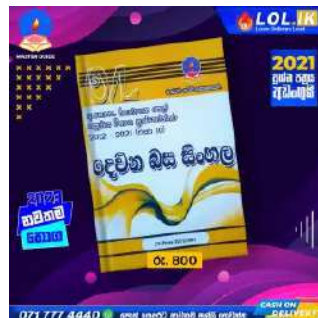
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