

## Jaffna Hindu College 1st Term Evaluation Exam - 2022

| JAFEN MINDE COLLEGE   |   | Evaluation Exam   |                                |  |  |  |  |  |
|---|---|---|--------------------------------|--|--|--|--|--|
| Grade - 09  |   | Science   | Time: 2.00 Hours               |  |  |  |  |  |
| Name / Index N  | Name / Index No:  |   |                                |  |  |  |  |  |
| Part - I  |   |   |                                |  |  |  |  |  |
| ❖ Select most a   | ppropriate answer.  |   |                                |  |  |  |  |  |
| 01. What is the S   | SI unit of pressure?  |   |                                |  |  |  |  |  |
| 1) Kgm <sup>-3</sup>  | 2) Nm <sup>-2</sup>   | 3) Pa   | 4) cmHg                        |  |  |  |  |  |
| 02. A group of a  | utotrophic microorganisr  | n is  |                                |  |  |  |  |  |
| 1)Algae   | 2) Virus  | 3) Fungi  | 4) Protozoa                    |  |  |  |  |  |
| 03. The part that   | an image focuses on th  | e human eye is  |                                |  |  |  |  |  |
| 1) Eye lens   | 2) Chroid   | 3) Iris   | 4) Reetina                     |  |  |  |  |  |
| 04. High thicker  | walled champers in the  | heart is  |                                |  |  |  |  |  |
| 1) Right vents  | -   |   | 4) Left ventricle              |  |  |  |  |  |
| 05. How is called microbes  | d the technology used for   | or the metal extraction from  | n low grade ores by using of   |  |  |  |  |  |
| 1) Bio leaching   |   | 2) Biological degradation   |                                |  |  |  |  |  |
| 3) Biological   | water control   | 4) Biological con   | ntrol                          |  |  |  |  |  |
| 06. Which blood   | group is universal recip  |   |                                |  |  |  |  |  |
| 1) A  | 2) B  | 3)AB  | 4) O                           |  |  |  |  |  |
| <ol> <li>Fermentat</li> <li>Rancidity</li> <li>Rancidity</li> </ol> | pids, Carbohydrates and<br>ion, Putrefaction, Rand<br>Fermentation, Putrifaction, Putrefaction, Ferment<br>on, Rancidity, Ferment | ction   | organism is                    |  |  |  |  |  |
| 08. An eye defec  | t is shown in the diagra  | m. The defect and suitable  | rectifying lens respectively.  |  |  |  |  |  |
|   |   |   | ) Short sightness, Convex lens |  |  |  |  |  |
| <del></del>   |   | <ul><li>2) Short sightness , Concave lens</li><li>3) Long sightness , Convex lens</li></ul> |                                |  |  |  |  |  |
| <del></del>   |   | 4) Long sightness, Concar   |                                |  |  |  |  |  |
| 09. Chemical procalled as   | duced in the body of r  | microbes to destroy or sabo   | otage another micro organism   |  |  |  |  |  |
| 1)Anti toxin  | 2) Vaccines   | 3) Antibiotics  | 4) Toxin                       |  |  |  |  |  |

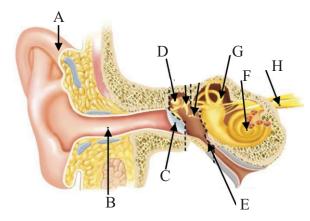
| 10. | What is the weight of th 1) 800 N   | ne object with 800g ma<br>2)80 N               | ass?<br>3)8N                          | 4) 0.8 N                           |  |  |  |
|-----|---|--|---------------------------------------|------------------------------------|--|--|--|
| 11. | The symbol of element 2  1) Zi  | zinc?<br>2) Zn                                 | 3)Zc                                  | 4) Na                              |  |  |  |
| 12. | Name the latin name of 1)Argentum   | gold<br>2) Aurum                               | 3) Ferrum                             | 4) Cuprum                          |  |  |  |
| 13. | 13. Atomic number of argon is 18 and the mass number 40 find the number of protons neutrons and electrons respectively. |  |                                       |                                    |  |  |  |
|     | 1) 18,40,18   | 2) 18, 18, 18                                  | 3) 18, 22, 18                         | 4) 18, 18, 22                      |  |  |  |
| 14. | Name the diseases which 1) Malaria  | n cause a rapid decline<br>2) Typhoid          | in a platelet percentag 3) Dengue     | ge<br>4) Tuberculosis              |  |  |  |
| 15. | The part that controls the 1) Cochlea   | e pressure on either sid<br>2) Eustachian tube | des of the tympanic mo                | embrane 4) Ossicles                |  |  |  |
| 16. | The blood vessels that call) Veins  | arryout blood from the 2) Capillaries          | heart are known as 3) Arteries        | 4) Not in above                    |  |  |  |
| 17. | Which is not considered 1) Ice cream  | as heterogeneous mixt<br>2) Seawater           | ure 3) Fruit salad                    | 4) Cement                          |  |  |  |
| 18. | The chemical compound 1) Ethanol  | that is used as an ana 2) Benzene              | esthetic substance? 3) Dimethyl ether | 4) Ethene                          |  |  |  |
| 19. | The compound which no 1) Copper sulphate  | ot contain oxygen 2) Sucrose                   | 3) Acetylene                          | 4) Acetic acid                     |  |  |  |
| 20. | 20. Name the virus that is reason for the resent pandamic situations?   |  |                                       |                                    |  |  |  |
|     | 1) Covid - 19   | 2) Rabies                                      | 3)Aedes                               | 4) Corona                          |  |  |  |
|     |   |  |                                       | $(20 \times 2 = 40 \text{ Marks})$ |  |  |  |
|     |   |  |                                       |                                    |  |  |  |
|     |   |  |                                       |                                    |  |  |  |
|     |   |  |                                       |                                    |  |  |  |
|     |   |  |                                       |                                    |  |  |  |

## Part - II

## \* Answer any five questions including First question.

- **01.** Following substances were given by a teacher to the students for a group work Sulphur, Calcium Carbonate, Water, Sodium Chloride, Copper, Silver
  - 1) Name a yellow coloured crystals?
  - 2) Select any two compounds mentioned in above.
  - 3) Write down two substance mentioned in above used to make homogeneous mixture.
  - 4) Write down the latin name of Silver?
  - 5) Write down the symbols of sulphur and Copper.
  - 6) Give the elements contained in calcium carbanate.
  - 7) Write down the chemical formula of following compounds
    - 1. Ethanol

- 2. Sucrose
- 8) Draw the molecular shape of water.
- 9) What are the separating methods in following instance.
  - 1. Separating cinnamon oil from cinamon leaves
  - 2. Separating various fuel from crude oil.
- 10) Give an advantage of involving group activity.
- 02. Model of human ear given below.



- 1) Identify the parts of A, C, E & F?
- 2) What are the three bones in ossicles?
- 3) Write down two defects that are related with ear?
- 4) What is the Function of G?
- 5) What is the range of audibility of the human ear?
- 6) Write 2 precautions that should be followed to protect the ear.
- 7) What is binocular vision?
- 8) Write down two diseases that are related with eye.
- 03. Pressure Can be increased or decreased according to the activities in day to day life.
  - 1) What is pressure?
  - 2) The mass of cuboid is 60 kg Find the pressure exert by the area of 1.5m<sup>2</sup> of cuboid.
  - 3) Write down 2 factors affect the pressure.

- 4) Give 2 instance to decrease pressure by increasing of area.
- 5) What are Factors represent by following in graphical representation of force?
  - 1. Length of Segment

- 2. Arrow head
- 6) What is the reason for force is considered as a vector quantity?
- 04. Eyes are located inside the orbits in the skull and fixed with six pair of eye muscle.
  - 1) Name 3 layers in wall of eye ball.
  - 2) Write down the Function of following parts.
    - 1. Iris
- 2. Optic Nerve
- 3) What is the reason for vision is impossible when Focused on blind spot?
- 4) What is myopia?
- 5) Give a reason for long sight?
- 6) Draw the ray digram for correcting the short sight.
- 7) Write two precautions that should be followed to prevent health problems of eye.
- 05. Human heart has champers and upper champers are called atria and the lower champers are called ventricles.
  - 1) Write down two veins that are open to the right atrium.
  - 2) Name the valve which is in between the left atrium and left ventricle?
  - 3) Write down two difference between arteries and veins.
  - 4) Write down a Function of following particles.
    - 1. Red blood cells
    - 2. Platelets
  - 5) Name two Factors that determine the blood. transfusion.
  - 6) Name the blood to the group of person who Can donate blood to the group of A<sup>+</sup>?
  - 7) Write 2 Farourable habits to maintain healthy blood circulation.
- 06. Organism which Cannot be seen by naked eye is called as micro Organisms.
  - 1) Name two group of microbes decomposed the organic matter.
  - 2) What is the name of microbes used as bio fertilizer.
  - 3) Write down two benificial effects of micro organisms in medical field.
  - 4) Give an instance where bio remediation is applied.
  - 5) Name two disease that are caused by Fungus.
  - 6) Name the bacteria used in the production of yoghurt?
  - 7) Write down two internal Factors affecting the Food spoilage.