யாழ்ப்பாணக் கல்வி வலயம்

Science - Unit Exam - 2020

Grade - 9 **Unit - 1** **Time : 40 minutes**

Part - *I*

❖ **Underline the correct answer**

01. Which of the following show both living and non-living characteristics?

(1) Bacteria (2) Fungi (3) Virus (4) Algae

02. Which microorganism consist the reproductive structure visible to our naked eye?

(1) Amoeba (2) Mushroom (3) Plasmodium (4) Yeast

03. The gas which is present in high percentage in the atmosphere is

(1) Nitrogen (2) Hydrogen (3) Carbon dioxide (4) Argon

04. Which vitamin is present in golden rice?

(1) B *(2)* K *(3)* A *(4)* A, B

05. The micro –organism which is not destroyed by antibiotics is?

(1) Bacteria (2) Fungi (3) Virus (4) Algae

06. Which is the vector of the disease "Leishmaniasis"?

(1) Sand fly (2) Mosquito (3) House fly (4) Fruit fly

07. Chemicals produced in the body of a microbe to destroy or sabotage another micro – organism are?

(1) Toxins (2) Antibiotics (3) Vaccines (4) Antibodies

08. The following changes were observed in a potato plant

- ❖ Brown spots could be seen on the leaves
- ❖ Later they turned in to black

Which disease affected the potato plant?

(1) Late blight (2) Powdery mildew disease

(3) Wilting (4) Curley leaves

09. The two metals which are extracted by bio – leaching are

(1) Copper , Carbon (2) Copper , Uranium

(3) Uranium , Iron (4) All are correct

10. Which of the following destroys fungi?

(1) Penicillin (2) Ampicillin

(3) Erythromycin (4) Griseofulvin

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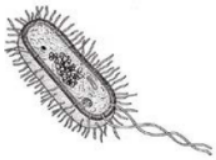
Structure Questions

1) (a) Structure of some microorganisms are shown below







A **B** **C** **D** **E**

01. Identify A, B, C, D *and* E

A :- …… B :- ……

C :- …… D :- ……

E :- …… ***(10* Marks)**

02. Which are unicellular and microscopic?

……..……..…**(4 Marks)**

03. Which has the ability to do photosynthesis?

……..……..…**(2 Marks)**

04. Which organisms multiplies only inside the living cells?

……..……..…**(2 Marks)**

05. What is the locomotive organ of D?

……..……..…**(2 Marks)**

2) (a) Some microorganisms are harmful to us

01. Give two adverse effects of microorganisms?

……..……..

……..……..…**(4 Marks)**

02. Which group of microorganisms cause diseases?

……..……..

……..……..…**(4 Marks)**

03. Dengue disease in human

(a) Pathogen : ……..……..…….. **(2 Marks)**

(b) Vector : ……..……..…….. **(2 Marks)**

(c) Host : ……..……..…….. **(2 Marks)**

04. Write the ways of spreading microbial infections?

……..……..

……..……..…**(2 Marks)**

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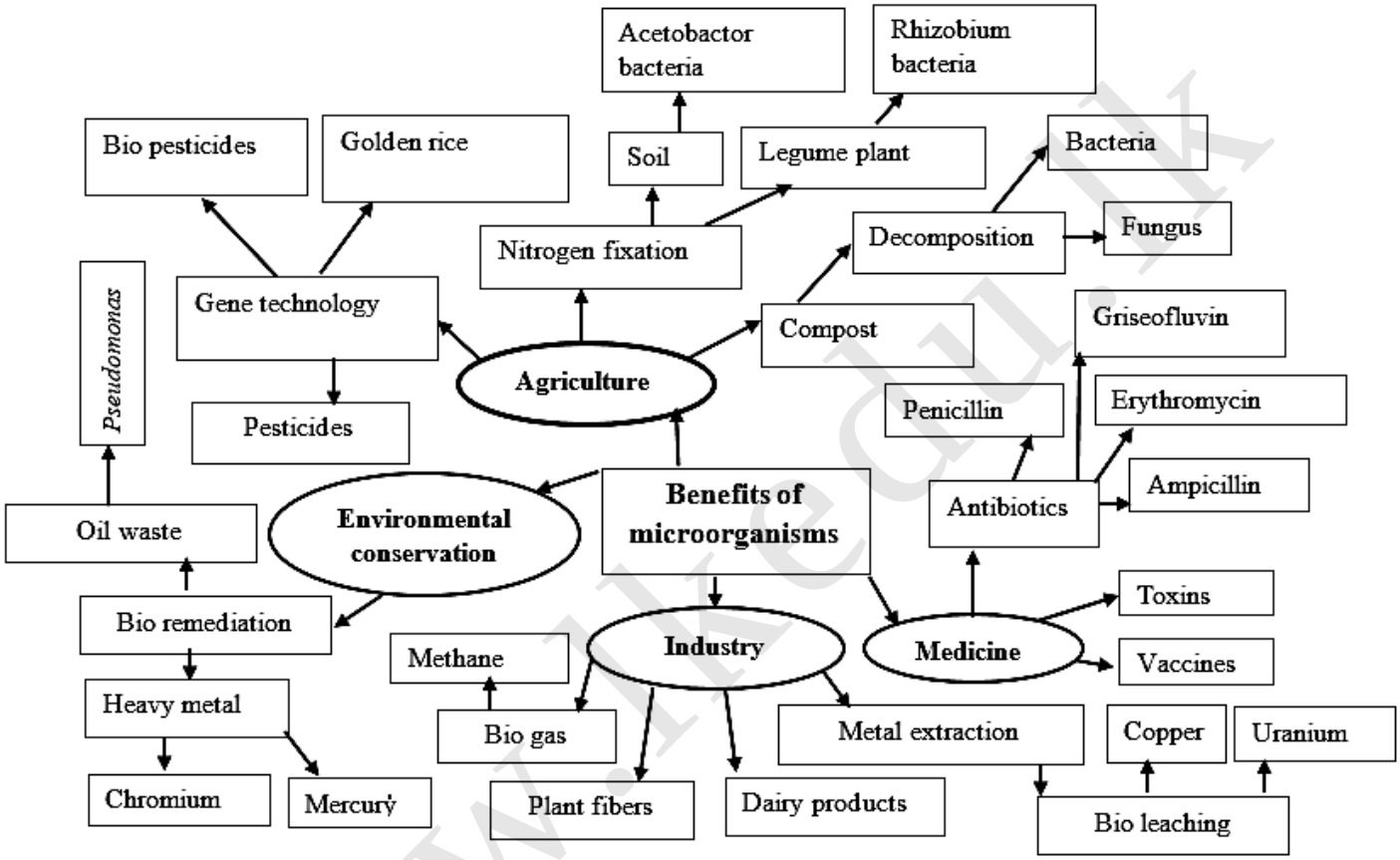
05. Give one disease for each of the following

(a) Virus : ……..…..…… *(b)* Bacteria : ……..……...

(c) Protozoa : ……..…..…… *(d)* Fungi : ……..……..……

(4 Marks)

3) *(a)* Answer the following questions using the concept map



01. Give three advantage of gene technology?

……..……

……..……

……..……..……..**(3 Marks)**

02. Which vitamin is mostly present in golden rice?

……..……..…..**(1 Marks)**

03. Which group of microorganisms is used in golden rice production?

……..……..……..…**(1 Marks)**

04. During the nitrogen fixation **(2 Marks)**

(a) Which bacteria lives in soil? : ……

(b) Which bacteria lives in the roots nodules of legumes? : ……...

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05. Which group of microorganism engage in the process of decomposition?

……..……..…….**.....(2 Marks)**

06. Give three uses of microorganisms in medical field?

……..……

……..……..…….**.....(3 Marks)**

07. Give 4 examples for antibiotics?

……..……

……..……..…….**.....(4 Marks)**

08. Which antibiotics kill the bacteria?

……..……

……..……..…….**.....(4 Marks)**

09. Give three uses of microorganisms in industries?

……..……

……..……

……..……..…….**.....(3 Marks)**

10. Which gas is mostly present in bio gas?

……..……..…….**.....(1 Marks)**

11. Which metals are extracted by the method of bioleaching?

……..……

……..……..…….**.....(2 Marks)**

12. Give two heavy metals?

……..……..…….**.....(2 Marks)**

13. Which bacteria is used to decompose the oil waste in to the ocean water?

……..……..…….**.....(1 Marks)**

14. Give a plant which is used to get fibre?

……..……..…….**.....(1 Marks)**

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Science - Unit Exam - 2020

Grade - 9 **Unit - 2** **Time : 40 minutes**

Part - *I*

❖ **Underline the correct answer**

01. Which part of the human eye controls the amount of light?

(1) Iris (2) Ciliary muscle (3) Lens (4) Pupil

02. Which part of the eye has light sensitive cells?

(1) Optic nerve (2) Blind spot (3) Retina (4) Sclerotic layer

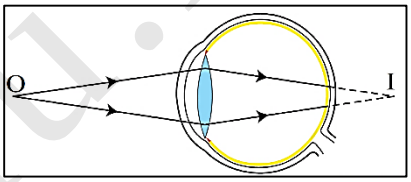
03. The correct short come and remedy for the given diagram are

(1) Shortsightedness – Concave lens

(2) Long sightedness – Convex lens

(3) Shortsightedness – Convex lens

(4) Long sightedness – Concave lens



04. A cloudiness or opacity occurs in normally transparent crystalline lens of the eye. Then the lens turns in to milky colour. This disease is called?

(1) Glaucoma (2) Cataract (3) Eye infection (4) Night blindness

05. Which part of the human ear is relative to the balance of the body?

(1) Auditory nerve (2) Semicircular canals

(3) Tympanic membrane (4) Ossicles

06. Which part is not included in external ear?

(1) Ear lobe (2) External auditory canal

(3) Tympanic membrane (4) Ossicles

07. What is the hearing range of human?

(1) $2Hz - 20{,}000Hz$ *(2)* $20Hz - 2000Hz$

(3) $20Hz - 20KHz$ *(4)* $20Hz - 200Hz$

08. Which part can change the focal length of the eye lens?

(1) Iris (2) Ciliary muscle (3) Retina (4) Pupil

09. Which part helps to maintain the pressure of either sides of tympanic membrane?

(1) Auditory canal (2) Earlobe (3) Eustachian tube (4) Cochlea

10. When seeing a distant object, size of the eye lens

(1) Increases (2) Decreases

(3) Can't be changed (4) Decreases after increasing

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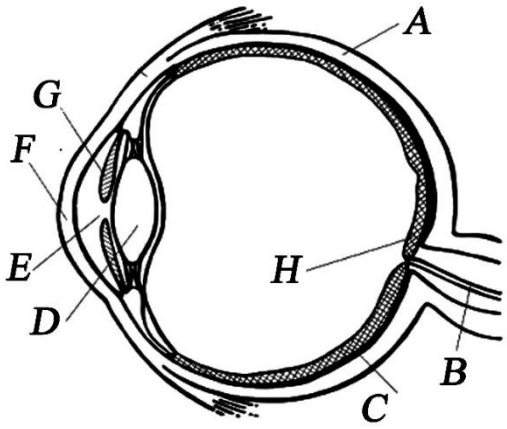
Structure Questions

1) (a) A longitudinal view of a human eye is given here



01. Label the parets A – H **(8 Marks)**

A - .....

B - .....

C - .....

D - .....

E - .....

F - .....

G - .....

H - .....

02. Write the functions of the parts A, E, F *and* G

A : ..... E : .....

F : ..... G : .....

(4 Marks)

03. Which cells are sensitive to light in the part C

.....**(4 Marks)**

04. The curvature of the eye lens changes according to the different distance. How is this process called?

.....**(2 Marks)**

05. In which part does the image form normally in the retina?

.....**(2 Marks)**

06. How is the ability called when observing a place by both eyes?

.....**(2 Marks)**

07. What is the reason for the disease "Glaucoma"?

.....**(2 Marks)**

08. Which part is transplanted when doing transplantation of eye?

.....**(1 Marks)**

09. There is no vision is possible in blind spot what is the reason for this?

.....**(2 Marks)**

10. Give two ways to maintain our eyes as healthy?

.....

.....**(2 Marks)**

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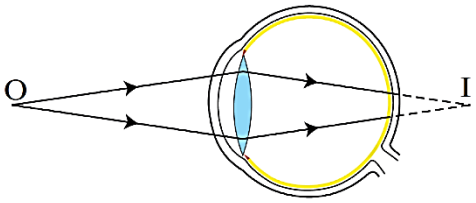
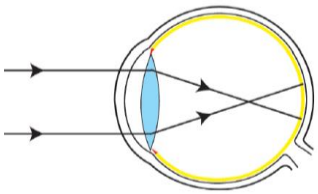
(*b*) Two short comes of human eyes are shown below



A



B

01. Identify both short comes A and B?

A : …… B : ……..

(4 Marks)

02. What is the reason for the short come "A"?

……...……...

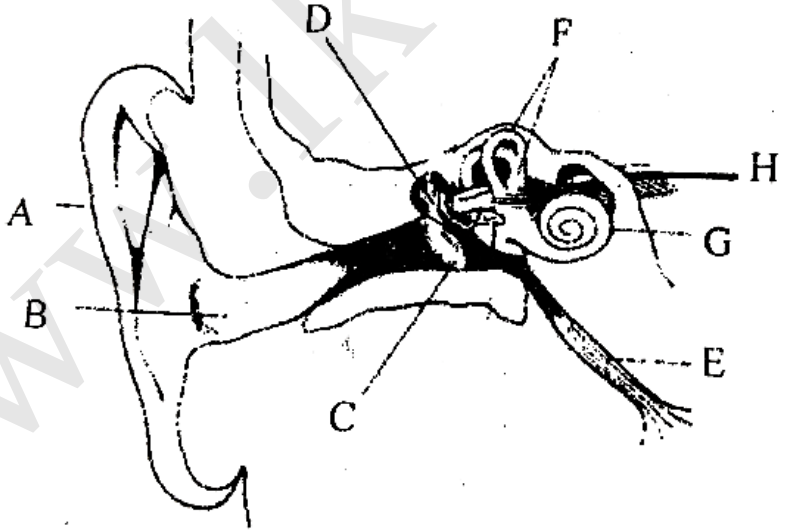
……...…...**(4 Marks)**

03. Which lenses are used to overcome these above short comes?

A : …… B : ……..

(2 Marks)

2) (*a*) A modal of the human ear is given here



01. Label the part $A - H$ **(10 Marks)**

A : …… B : …….

C : …… D : …….

E : …… F : …….

G : …… H : …….

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02. Write a flow diagram to show the sound travels in ear?

……

……

……**(2 Marks)**

03. Give the functions of the parts B, E, G *and* H

B : …… E : ……

G : …… H : ……

(4 Marks)

04. Which parts contribute to maintain the equilibrium?

……

……**(2 Marks)**

05. Give the media of sound in ear?

……

……**(2 Marks)**

06. Give the names of ossicles in an order?

……

……**(2 Marks)**

07. Which part connects pharynx and the middle ear?

……

……**(2 Marks)**

08. What is the reason for the losing of hearing when ageing?

……

……**(2 Marks)**

09. Which parts are included in inner ear?

……

……**(2 Marks)**

10. Give two ways to protect human ear?

……

……

……**(2 Marks)**

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