



# 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

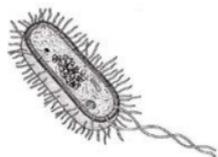
- (1) Copper , Carbon                      (2) Copper , Uranium  
(3) Uranium , Iron                      (4) All are correct

10. Which of the following destroys fungi?

- (1) Penicillin                      (2) Ampicillin  
(3) Erythromycin                      (4) Griseofulvin

### 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?

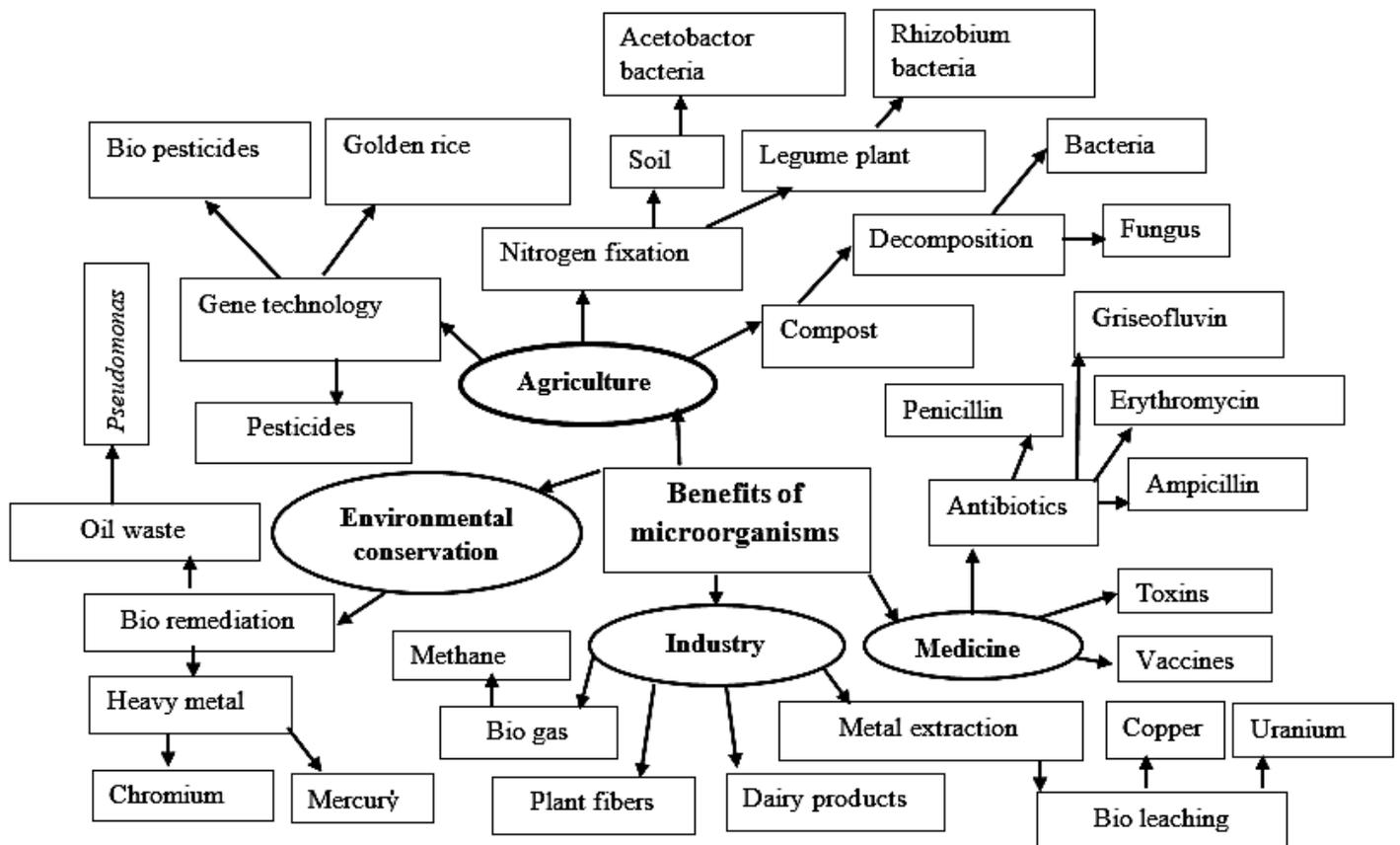
.....  
.....(2 Marks)

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? : .....

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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