

Zonal education office - Jaffna

Grade- 8

Term- 1

Unit – 01

Time - 40 min

Part – 1

Choose the correct answer

- 1) Who observed micro-organisms for the very first time.
 - 1) Antonie van Leeuwenhoek
 - 2) Carolus Linnaeus
 - 3) Galileo Galilei
 - 4) Robert Hooke
- 2) The food that undergoes putrefaction.
 - 1) Bread
 - 2) Egg
 - 3) Butter
 - 4) Potato
- 3) Temperature range suitable for microbial growth is,
 - 1) $0^{\circ}C - 10^{\circ}C$
 - 2) $100^{\circ}C - 150^{\circ}C$
 - 3) $25^{\circ}C - 30^{\circ}C$
 - 4) $50^{\circ}C - 80^{\circ}C$
- 4) Which of the following is used as supplementary for protein?
 - 1) Bacteria
 - 2) Paramecium
 - 3) Amoeba
 - 4) Reproductive structure of *Agaricus* (Mushroom)
- 5) Which micro-organism is responsible for fermentation of coconut water that is exposed to air for Two days?
 - 1) Yeast
 - 2) Chlamydomonas
 - 3) Paramecium
 - 4) Algae

(5x4 =20 marks)

Put right (√) or wrong (×)

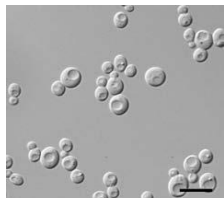
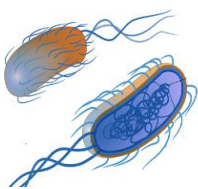
- 1) Micro-organisms are used in powdered milk production ()
- 2) Microbial activities are controlled in the food by keeping it in refrigerator ()
- 3) Bacteria is causative agent of malaria ()
- 4) Micro-organisms are not present in hot springs ()
- 5) Quality of food will change due to the activities of micro-organisms ()

(5x4 = 20marks)

Part II

Answer all questions

1) Answer the following question by using given diagrams.



A

B

C

D

E

a. Identify the micro-organisms from A to E?

- A..... B.....
- C..... D.....
- E..... (5x2= 10Marks)

b. Which micro-organism can be observed in hay extracted water?

..... (3Marks)

- c. Name a unicellular fungi from the above?.....(3Marks)
 - d. Which micro-organism can be observed through hand lens in spoilage of bread?
..... (3Marks)
 - e. State an instrument which can be used to observe above micro-organisms clearly?
..... (2Marks)
 - f. Write the locomotory organ for the following?
C..... E.....(3Marks)
 - g. Which micro-organism shows living or nonliving characteristics which is not mentioned above?.....(3Marks)
 - h. Which of the above has ability to do photosynthesis?.....(3Marks)
- (30Marks)**

2) The following setup was given to identify the effects of micro-organisms on food.



- a. Which micro-organism is used in above experiment?.....(3Marks)
- b. State two observations during the above experiment? (3Marks)
- c. Which gas is responsible for expansion of balloon..... (3Marks)
- d. State a food production method based on above experiment?..... (3Marks)
- e. Which compound causes the smell when loose the balloon?.....(3Marks)
- f. State type of microbial activity for the following food type?
a) Sugar b) Lipid (3Marks)

3) Some micro-organisms are beneficial to human while some are harmful

- a. State an usage of micro-organisms in medical field?
..... (3Marks)
 - b. Which group of micro-organism is responsible for pityriasis in skin?
..... (3Marks)
 - c. Name the groups of micro-organisms which are decomposed animal and plant wastages?
..... (3Marks)
 - d. State the colours of dustbin to put following wastages in waste management system?
1. Plant wastages:
2. Paper wastages: (3 Marks)
- (30 Marks)**

