## CHAPTER 8 – BACTERIA AND FUNGI – THEIR ECONOMIC IMPORTANCE

## A. Name the following.

- 1. A free living nitrogen-fixing bacteria.
- 2. A food poisoning disease caused by bacteria.
- 3. A poisonous mushroom.

Column A

4. A fungal disease of plants.

1. Spherical-shaped bacteria

5. Bacteria used in vinegar production.

### B. Match the items in Column A with those in Column B and write down the matching pairs.

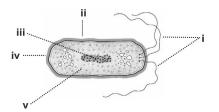
Column B

a. Vibrio cholerae

	opineriesa simpesa succersa			
2.	Rod-shaped bacteria	b.	Diplococcus	
3.	Spherical bacteria in pair	c.	Staphylococcus	
4.	Spiral-shaped bacteria	d.	Leptospira	
5.	Comma-shaped bacteria	e.	Bacillus anthracis	
C.	C. State whether the following statements are True or False.			
1.	Bacteria move with the help of whip-like flagella.			
2.	BCG is a vaccination for typhoid.			
3.	Diphtheria is a bacterial disease.			
4.	. Bacteria form endospores to protect themselves from anaerobic condition.			
5.	Athlete's foot is a viral disease.			
D. Fill in the blanks.				
1.	Penicillin is obtained from			
2.	is a food preservative added to tinned food and squashes to prevent their spoilage.			
3.	. The finger-like hyphae of Rhizopus which penetrate the substratum is known as			
4.	Bacteria reproduce asexually by			
5.	Conversion of nitrate and nitrite salts to elemental nitrogen is known as			
E.	. Study the figure given below and answer the following questions.			
1.	Identify the given organism and name the grou	p to	which it belongs.	
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Class: IX Date:				



- 2. Label parts i-v.
- 3. Write the function of parts i, ii and iv.
- 4. Name a cell organelle present in this organism and state its role.
- 5. How do these organisms reproduce? Also name the structure formed to overcome unfavourable condition.



# **ANSWERS**

#### WORKSHEET 2

### A. Name the following.

- 1. Azotobacter
- 2. Botulinum
- 3. Amanita sp (fly agaric)
- 4. Late blight of potatoes
- 5. Acetobacter and Bacillus acetic
- B. Match the items in Column A with those in Column B and write down the matching pairs.
- 1. c.

2. e.

3. b.

4. d.

5. a.

- C. State whether the following statements are True or False.
- 1. True
- 2. False
- 3. True
- 4. False
- 5. False

- D. Fill in the blanks.
- 1. Penicillium notatum

2. Sodium benzoate

3. rhizoid

4. binary fission

- 5. denitrification
- E. Study the figure given below and answer the following questions.
- 1. Bacteria, Monera
- 2. i. Flagella
- ii. Cell wall
- iii. Nuclear material
- iv. Cell membrane

- $\mathbf{v}$ . Cytoplasm
- 3. Functions
  - i. Flagella Helps in movement of the cell.
  - ii. Cell wall Protects the cell and gives it shape.
  - **iv.** Cell membrane Regulates movement of substances into and out of the cell; contains enzymes important for cellular respiration.
- 4. Ribosomes Help in protein synthesis.
- 5. Bacteria reproduce asexually by binary fission under favourable conditions. They form endospore under unfavourable condition.