**Week 5: Question Bank**

Course: M.Sc., Microbiology Semester II

Subject: Industrial Microbiology

Course Code: MICR-522

Subject teacher: Dr. Shrivardhan Dheeman

**MCQs (1 points each)**

Q.1 Which of the following IUPAC name **correct** for citric acid

 a. 2-hydroxy-tricarboxylic acid

 b. 2-hydroxy-1,2,3-propane tricarboxylic acid

 c. 1,2,3-tricarboxylic acid

 d. none of the above

Q.2 Which of the following is called ‘Koji’.

 a. *Aspergillus oryzae*

b. *Aspergillus japonicus*

c. *Aspergillus niger*

d. *Aspergillus nigricanis*

Q.3 Which of the following is called vinegar

 a. Acetic acid

 b. Lactic acid

 c. Citric acid

 d. Kojic acid

Q.4 Who is credited for the discovery of lactic acid.

 a. Scheele

 b. Pasteur

 c. Hans Christian

 d. None of the above

**Short Answers (2 points each)**

Q.5 describe type of slow and quick process of citric acid production.

Q.6 Drive schematic mechanism of ethanolic fermentation.

Q.7 Differentiate between homo-fermentation and hetero-fermentation of lactic acid.

Q.8 Describe industrial method of lactic acid fermentation.

**Long Answers (4 points each)**

Q.9 Describe three variable process of citric acid production.

Q. 10 Elucidate history of brewing and role of yeast in the production of alcoholic beverages.