



VI Semester B.Sc. Examination, May/June 2018  
(Semester Scheme) (F+R)  
(CBCS – 2016-17 and Onwards/NS-2013 – 14 and Onwards)  
MICROBIOLOGY – VIII  
Industrial Microbiology and Microbial Technology

Time : 3 Hours

Max. Marks : 70

**Instructions :** 1) Answer **all** Parts.

2) Candidates of **2013-14** and onwards should answer **A, B** and **C** Part only.

3) Draw diagrams **wherever** necessary.

## PART – A

I. Answer the following :

(5×2=10)

- 1) Adsorption
- 2) Malting
- 3) Hydroxylation
- 4) Koji's process
- 5) Batch sterilization.

BMSCW

## PART – B

II. Answer **any four** of the following :

(4×5=20)

- 6) Explain the temperature and pH regulation in fermentation.
- 7) Describe Airlift fermentor.
- 8) Describe primary screening of industrially important organisms.
- 9) Give an account on brewing.
- 10) Explain fermentative production of Glutamic acid.

P.T.O.



## PART - C

(3×10=30)

III. Answer **any three** of the following :

- 11) Explain batch and continuous fermentation process. Add a note on SSF.
- 12) Give an account on various media used in industrial fermentation process.
- 13) Explain the steps involved in recovery of product from fermentation broth.
- 14) Describe the industrial production of whisky.
- 15) Explain the production of Penicillin.

## PART - D

(10×1=10)

IV. Answer in **one line only** :

- 16) Adjuncts
- 17) Wort
- 18) Casing
- 19) Biotransformation
- 20) *Aspergillus. niger*
- 21) Baffles
- 22) Wooden casks
- 23) Silicone
- 24) Mutagenesis
- 25) Biofuels.