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RNLKWC/P.G./CBCS/MFSN/IIS/203/22

2022

Food Science & Nutrition

[P.G.]

(M.Sc. Second Semester End Examination-2022)

PAPER-MFSN 203

[Advance and Industrial food Microsidry]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Answer any five Questions from the following **5x2=10**

- a. Write the criteria of a good strain for bioindustry.
- b. Why is sodium nitrite used as meat preservatives
- c. Define homotropic and heterotropic fermentation with example.
- d. What is primary and secondary metabolites?
- e. Write the criteria of a media for industrial production.
- f. What is growth yield? Write its importance.
- g. Define probiotics and prebiotics.
- h. Write the difference between batch culture and continuous culture.

2. Answer any four Questions from the following **4x5=20**

- a. What is solid state fermentation? Write its Advantage and disadvantage.

(2)

- b. What is pure culture? Write the process to obtain the pure culture from mixed culture.
- c. Draw and describe the bacterial growth curve
- g. Canning is termed as '12D Processing' – Explain
- h. Write a short note on 'Biopresentation'.
- i. Briefly describe the production of amylase using mode.

Group C

3. Answer any one Question from the following **1x10=10**

- a. What is GM food? Give some example of GM-food. Write the beneficial effect of probiotics and fermented food. Give some examples of industrial important microorganism with products.
(1+2)+(2+2)+3
- b. Briefly describe the process to measure the bacterial growth in direct and indirect methods. Write the methods to maintain the pure culture. 5+5