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RNLKWC/P.G./CBCS/MFSN/IIS/202/22

**2022**

**Food Science & Nutrition**

**[P.G.]**

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

**PAPER-MFSN 202**

*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*

**Group A**

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

- a. What do you mean by half-life of radio isotope?
- b. Write the full forms of 'FIA and CLIA'.
- c. State the impact of 'GLP'
- d. What do you mean by chromatographic fingerprinting?
- e. Differentiate hygiene and sanitation.
- f. Write the major types of packaging materials.
- g. What are scintillators?
- h. Why taq-pol is used in PCR?

**Group B**

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

- a. State the working principle of 'Ion exchange chromatography'

(2)

- b. Discuss in brief about scintillation counter.
- c. State the different steps of PCR.
- d. Write in comparative aspect of hygiene in rural and urban areas in relation to food preparation and personal hygiene.
- e. 'Micro organisms as indicator of sanitary quality' – justify the statement.
- f. What do you mean by intelligence packaging?

**Group C**

3. Answer any one Question from the following **1x10=10**
- a. Write the principle of s-ELISA. State the steps of s-ELISA. What do you mean by intra assay and inter assay variation in ELISA? **2+5+3**
  - b. State the packaging system of
    - i) Meat & poultry flash
    - ii) Frozen food packs as per IFST guide lines. **5+5**