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**FNS 503**

**Third Semester M.Sc. Degree (CBCS) Examination, December 2018**  
**FOOD SCIENCE AND NUTRITION**  
**Recent Trends in Food Technology**

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any five** of the following (**not** exceeding **2** pages **each**) :  
**(5×3=15)**
  - a) Nano-sensors.
  - b) Nano-barriers.
  - c) Tetra packaging.
  - d) Nano-foods.
  - e) Pathogen indicator.
  - f) Polymers.
  - g) Preservatives.
  - h) Cold plasma.
  
2. Write explanatory notes on **any five** of the following (**not** exceeding **3** pages) :  
**(5×5=25)**
  - a) Modified atmosphere packaging.
  - b) Edible films and coating.
  - c) Role of nano packaging materials in improved packaging.
  - d) Use of chemicals in food processing.
  - e) Ethanol vapour generator.
  - f) Smart packaging technology.
  - g) Ionized radiation in food processing.
  - h) Nano particles in agriculture.

P.T.O.



3. Answer **any three** of the following (**not** exceeding **5** pages) : **(3×10=30)**

- a) Discuss the benefits of non-thermal processing over thermal processing.
  - b) Elaborate on High Pressure Processing.
  - c) Illustrate the current scenario and acceptance of nano technology in food industries.
  - d) Explain light as non thermal processing.
  - e) Elaborate on active packaging.
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