

**End Semester Examinations - 2015-16 Even Semester - May 2016**

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**14FP3004 Food Plant Layout and Design**

**Set A**

**Time : 3 hrs**  
**Total Marks: 100**

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1. What is a feasibility study? Develop a format for studying the feasibility of establishing an industry manufacturing carbonated beverages unit near Karunya. (20 marks)  

**OR**
  2. What do you understand by the term “Scope of a project”? Can you develop the scope for a Food Industry manufacturing pickles? (20 marks)
  3. Discuss in detail on the concepts of Food Safety Management System. (20 marks)  

**OR**
  4. What are the hazards commonly encountered in a Food Industry? How will you prevent it? (20 marks)
  5. A dairy firm wants to optimize its cleaning operations. Brief them on the kinetics of cleaning of a dairy plant. (20 marks)  

**OR**
  6. Discuss in detail on the methods of water softening. (20 marks)
  7. It is proposed to set up a Frozen meat manufacturing 1 tonne of frozen chicken/ day. Calculate the investment required for setting up the plant by Miller’s method. Given – Cost of the IQF plant was Rs. 5,00,000 in 1996. Given CEPC index for 1996 = 387.1 and for 2015 = 556.8. (20 marks)  

**OR**
  8. Discuss in detail on the Richard Muther method of Simplified Systematic Plant Layout (20 marks)
  9. Discuss briefly on the following: a. Depreciation and the methods of determination (8 marks) b. Cash flow diagram and its significance (8 marks). C. Importance of the rate of return on Investments (4 marks)
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**Wishing you All the Best**

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