

**ASSIGNMENT SET - III****Department of Nutrition****Mugberia Gangadhar****Mahavidyalaya****B.VOC(BVFP)Semester-VI****PaperCode:BVFP603****Answer all the questions****UNIT I**

1. Discuss the role of robotics in modern packaging lines. Provide examples of tasks where robotics can be effectively utilized.?
2. Discuss the role of labeling regulations in ensuring consumer safety and information transparency. Provide examples of critical labeling requirements.
3. Discuss the scope of functions that packaging serves in the food industry. Include aspects such as protection, communication, and convenience.
4. Examine the importance of graphic design and branding in food packaging. How does it impact consumer perception and purchasing decisions?

**UNIT II**

1. Discuss the key factors to consider when designing packaging materials for perishable goods. How can packaging help extend the shelf life of such products?
2. Describe the general manufacturing process for packaging materials. How does it vary for materials like paper, plastic, and metal?
3. Classify plastics based on their structure and processing characteristics. Provide examples of packaging materials for each classification.

**UNIT III**

1. Compare and contrast the advantages and disadvantages of using aluminum foil and other metal packaging materials?

2. Discuss the design considerations for glass packaging, including factors like shape, weight, and closure mechanisms.
3. Discuss the considerations for selecting appropriate printing inks and coatings based on the packaging material and product requirements.

#### **UNIT IV**

1. Describe the packaging requirements for various dairy products, such as milk, cheese, and yogurt. How does packaging contribute to maintaining product quality and safety?
2. Describe the specific packaging considerations for instant foods.

#### **UNIT V**

1. Explore the challenges and solutions related to recycling plastic packaging materials.
2. Describe the lined cartoning system and its applications in the packaging industry.
3. Describe the principles and applications of form-fill-sealing machines.

#### **UNIT VI**

1. Describe the role of nutritional labeling on food packages.
2. What are the advantages and limitations of barcode technology?
3. Examine the role of international organizations in setting global standards for food labeling.