Describe pro 4102 steps

FOOD PACKAGING TECHNOLOGY

Paper: FPT 601

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions out of seven.

- 1. (a) Describe primary and secondary level of Food Packaging.
 - (b) Write two properties and two uses of HDPE, LDPE, PVC & PET plastic materials.
 - (c) State the purpose of lacquered can used for food canning and list *any four* lacquers used for can.

 4+2
 - (d) Define packaging and enlist *five* benefits of food packaging. 2+5

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- 2. (a) Draw the sketches of manufacturing process of glass bottle by blow and blow process and press and blow process.

 Describe processing steps. 16
 - (b) Give two suitable packaging materials for each of the following products: 4
 - (i) Vegetable oil
 - (ii) Glucose biscuits
 - rot same (iii) Cake han nigram salt ni serugit salt
 - (vi) Mango Jam.
 - 3. (a) Describe the procedure of determination of WVTR.
 - (b) What is Aseptic packaging? State the purpose of aseptic packaging.
 - (c) Describe the manufacturing process of flexible polyethylene film.
 - (d) What is migration? Describe overall migration with migration limit.

- 4. Write notes on *any four* of the following: 5×4
 - (a) Intelligent packaging
 - (b) Manufacturing process of Aluminium foil
 - (c) Barcodes
 - (d) Packaging Regulations
 - (e) Double seammer
 - (f) Hot packing or Hot filling.
- 5. (a) How can you define active packaging system? How it is important for packaged food to retain their quality and improve shelflife?
 - (b) Explain how the active scavenging systems
 (Absorbers) and Active releasing systems
 (Emitters) help to improve the food safety
 and food quality.

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- 6. (a) Draw the sketches for manufacturing of two piece can by DWI technique and DRD technique. Describe processing steps. 16
 - (b) Draw labeled sketch of three piece can manufacturing steps. 4

- 7. (A) Write short notes on any five of the following:
 - Slip Additives (a)
 - (b) Corrosion
 - (c) Plasticizer
 - Antiaging additives (d)
 - Drop test footmiss olduoci (e)
 - (f) Compression test
 - Gloss (g) How can you deline ac
 - been loss (h) Clarity. Self wolf C mateys
 - (B) (a) Enlist the eight layers of tetra packaging system and state functions of each layer.
 - (b) State the specific purpose for use of aluminium foil as a packaging material with example of food (a). Draw the sketches touborque acturing of