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**B. Sc. (Fashion Technology) (Semester-6<sup>th</sup>)**  
**PLANT LAYOUT AND FACILITY DESIGN**  
**Subject Code: BFTE2642**  
**Paper ID: 130226**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(2 marks each)**

- Q1. Attempt the following:
- a. Define Plant layout.
  - b. Categories of facility design.
  - c. Selection of equipment in material handling
  - d. Line balancing.
  - e. Unit load concept.
  - f. Aisles.
  - g. Plant location and lighting.
  - h. Modular design concept.
  - i. Maintenance of facility design.
  - j. Computer aided layout.

**Section – B**

**(5 marks each)**

- Q2. Warehouse layout model.
- Q3. Types of plant layout.
- Q4. Factors for consideration in space planning.
- Q5. Approaches to facilities planning.
- Q6. Principles of material handling.

**Section – C**

**(10 marks each)**

- Q7. Theories of plant location and location economics.
- Q8. Plant layout in Textile and garment industry .Its objectives and principles.
- Q9. Factors influencing facility design in Textile and garment industry.