



**PART B (10 x 2 = 20 Marks)**

**(Answer not more than 40 words)**

11. State the basic concept of production system.
12. List the steps involved in the new product development.
13. Define plant layout
14. Outline the scope of plant layout.
15. Summarize the responsibilities of cut order planning.
16. Write the functions of flow process continuous system.
17. What are the components involved in JIT?
18. What are the uncontrollable factors complicating the manufacturing environment?
19. Identify the need of line balancing in garment industry.
20. Choose the appropriate control parameters applicable for line balancing.

**PART C (5 x 14 = 70 Marks)**

**(Answer not more than 400 words) Q.No. 21 is Compulsory**

21. Elaborate the role and functions of production management department.
  
22. (a) (i) Name the types of layouts available in manufacturing industries. Illustrate each layout with suitable examples. (07)  
(ii) Recommend the standard procedure to select a proper layout for the manufacturing of garment. (07)

**(OR)**

- (b) (i) What are the factors to be considered for the selection of plant layout? (07)  
(ii) Categorize the criterion involved for the evaluation of plant layout. (07)
  
23. (a) (i) Explain in detail about the progressive bundle system. (07)  
(ii) Discuss about the whole garment production system and its types. (07)

**(OR)**

- (b) (i) Unit production systems eliminate most of the lifting and turning needed to handle bundles and garment parts. Justify. (07)  
(ii) Determine principles and functions of modular manufacturing system. (07)

24. (a) (i) Demonstrate the scopes for the implementation of JIT production systems in garment industry and justify the demand and limitation. (10)
- (ii) Propose the suitable applications of network analysis. (04)

**(OR)**

- (b) (i) Why inventory control is essential in garment industry? Suggest the standard procedure for controlling inventory and inventory control records. (10)
- (ii) What is Gantt load Chart? Write the limitation of Gantt Chart. (04)
25. (a) (i) Derive the parameters to be considered for selection of machineries and equipment to startup a garment unit. (10)
- (ii) What are the product related issues to be considered for the selection of machinery and equipment? (04)

**(OR)**

- (b) (i) How to set a balanced line in a garment industry? (10)
- (ii) List the criteria to be followed while organizing the line balance. (04)

\*\*\*\*\*